

List 5.2 of Bolonkin's publications in 2007-2015 (Loading is free):

Contains the List 5.2 of Bolonkin's scientific researches, works, articles and books written or published in 2007-2015 and free links to them.

1. List 5.1 of Bolonkin's publications in 2007-2014 (Loading is free):

1. <https://archive.org/details/List5OfBolonkinPublications>, <http://intellectualarchive.com> #1392.
http://samlib.ru/editors/b/bolonkin_a_a/list5bolonkinspublicationin2007-2014.shtml ,
<https://www.academia.edu/9251433/>, Ref. 8386086, 4 1 15
2. AIAA. American Institute Aeronautics and Astronautics (>40 Bolonkin's scientific reports).
<http://arc.aiaa.org/action/doSearch?AllField=Bolonkin>
3. Archive of Cornell University (USA): (45 Bolonkin's scientific works).
<http://arxiv.org/find/all/1/au:+Bolonkin/0/1/0/all/0/1>
4. Archives (USA): Search: "Bolonkin" (>86 Bolonkin's scientific works).
<https://archive.org/search.php?query=Bolonkin> <http://www.archive.org> .
5. Intellectual Archive, (>40 Bolonkin's scientific works). <http://intellectualarchive.com/?link=find#> . Search: Physics, Bolonkin
6. Bolonkin's WEB <http://Bolonkin.narod.ru/p65.htm> .
7. <http://www.scribd.com>, <https://www.scribd.com/Bolonkin> (it may be temporary blocked) (>98 Bolonkin's scientific works).
8. Archive Vixra. <http://vixra.org/search?domains=vixra.org&q=Bolonkin&client=pub-9708849425281176&forid=1&ie=ISO-8859-1&oe=ISO-8859-1&cof=GALT%3A%23008800%3BGL%3A1%3BDIV%3A%23ffffff%3BVLC%3A663399%3BAH%3Acenter%3BBGC%3Afffff%3BLBGC%3Afffff%3BALC%3A008800%3BLC%3A008800%3BT%3A000000%3BGFNT%3A008800%3BGIMP%3A008800%3BFORID%3A11&hl=en&site=search=vixra.org%2Fpdf> (45)
9. Academia.edu <https://independent.academia.edu/AlexanderBolonkin/Papers> (>19)
10. General Science Journal, (>12 scientific works). <http://gsjournal.net/Science-Journals-Papers/Author/1481/Alexander,%20Bolonkin>
11. Cheapest Bolonkin books: <http://www.lulu.com/shop/search.ep?keyWords=Bolonkin&sorter=relevance-desc>
12. Wikipedia: Bolonkin Alexander (English).
13. Болонкин в Энциклопедии «Ученые России» <http://www.famous-scientists.ru/14910/>
14. Bolonkin in English Wikipedia http://en.wikipedia.org/wiki/Alexander_Bolonkin
15. Storige: <https://disk.yandex.ru/client/narod>
16. Add to scribd: <https://www.scribd.com/search-documents?query=Bolonkin>

Books:

- 1) **Human Immortality and Electronic Civilization. Electronic book, 1991. WEB:**
<http://Bolonkin.narod.ru>, http://bolonkin.narod.ru/Book_Immortality_in_English.htm
http://bolonkin.narod.ru/Book_Immortality_in_Russian.htm .???
http://narod.ru/disk/13292584000/Book_Immortaity_in_Russian_6_4_07.doc.html
- 2) **Human Immortality and Electronic Civilization. Lulu, USA, 3rd edition (in English), 2007.**
<http://www.archive.org/details/HumanImmortalityAndElectronicCivilization> , <http://Vixra.org/abs/0709.0001> ,
<http://Vixra.org/pdf/0709.0001v1.pdf> ,
https://www.academia.edu/11001577/Human_Immortality_and_Electronic_Civilization_USA_New_York_2007 , <http://intellectualarchive.com/?link=find#detail> #1139, <https://www.scribd.com/search-documents?query=Bolonkin> , <http://www.scribd.com/doc/24053302> ,

- 3) **Бессмертие людей и электронная цивилизация (in Russian). USA, Lulu, 3-е издание 2007**, <http://www.archive.org/details/HumanImmortalityAndElectronicCivilizationInEussian>, <http://vixra.org/abs/1309.0189> (Russian), <http://intellectualarchive.com/?link=find#detail> №1140, <https://www.scribd.com/search-documents?query=Bolonkin> , <http://www.scribd.com/doc/24052811> .
- 4) **Записки советского политзаключенного. 1991 (in Russian). 70 стр.** , <http://vixra.org/abs/1309.0187>, <http://intellectualarchive.com/?link=find#detail> #1142, <http://www.archive.org/details/MemoirsOfSovietPoliticalPrisonerInRussian>, <https://www.scribd.com/search-documents?query=Bolonkin> , <http://www.scribd.com/doc/24053537>
- 5) **Memories of Soviet Political Prisoner. Translation from Russian. Lulu, 1995.** <http://vixra.org/abs/1309.0188>, <http://www.archive.org/details/MemoirsOfSovietPoliticalPrisoner>, <http://intellectualarchive.com/?link=find#detail> #1141, https://www.academia.edu/11001770/Memoirs_of_Soviet_Political_Prisoner_New_York_1991 , <https://www.scribd.com/search-documents?query=Bolonkin>, <http://www.scribd.com/doc/24053855>,
- 6) **“Non Rocket Space Launch and Flight”**. Elsevier, 2006. 488 pgs. ISBN-13: 978-0-08044-731-5, ISBN-10: 0-080-44731-7 . <https://archive.org/details/Non-rocketSpaceLaunchAndFlightv.3> , (v.3) <http://vixra.org/abs/1407.0174> , <http://www.archive.org/details/Non-rocketSpaceLaunchAndFlight> , (corrected), <http://www.scribd.com/doc/203941769/Non-Rocket-Space-Launch-and-Flight-v-3> , <http://www.scribd.com/doc/24056182> (graph). <http://www.scribd.com/doc/202159078/Non-Rocket-Space-Launch-and-Flight-2-nd-Edition> (graph). <http://www.twirpx.com/file/1296604/> , https://www.academia.edu/11055944/Non_Rocket_Space_Launch_and_Flight_Graph_V.3 <http://narod.ru/disk/13288386000/Book%20Non%20Rocket%20v2.doc.html> .
- 7) **“New Concepts, Ideas, Innovations in Aerospace, Technology and the Human Sciences”**, NOVA, 2006, 510 pgs. ISBN-13: 978-1-60021-787-6. <http://vixra.org/abs/1309.0193>, <http://www.archive.org/details/NewConceptsIfeasAndInnovationsInAerospaceTechnologyAndHumanSciences> <http://www.scribd.com/doc/24057071> ? , <https://independent.academia.edu/AlexanderBolonkin/Papers> <http://narod.ru/disk/13289623000/Bolonkin%20Monograph-P%20corrected%2011%2020%2007.doc.html> ,16Mb.
- 7) **“Macro-Projects: Environments and Technologies”** , NOVA, 2007, 536 pgs. ISBN 978-1-60456-998-8. <http://www.archive.org/details/Macro-projectsEnvironmentsAndTechnologies> , <http://vixra.org/abs/1309.0192> , <http://www.scribd.com/doc/24057930> , <https://independent.academia.edu/AlexanderBolonkin/Papers>, Storage: http://narod.ru/disk/13292420000/Book_Macro_Projects_for_Internet%209%2018%2009.doc.html
- 8) **“New Technologies and Revolutionary Projects”** , Scribd, 2008, 324 pgs, <http://www.archive.org/details/NewTechnologiesAndRevolutionaryProjects>, <https://www.scribd.com/search-documents?query=Bolonkin> , <http://www.scribd.com/doc/32744477> ,
- 9) **«Жизнь. Наука. Будущее»** (биографические очерки, исследования и инновации) , Россия, ПГУ, 2010, 286 pgs, 23 Mb., ISBN: 978-1-300-49164-4, <http://vixra.org/abs/1309.0204>, <http://www.twirpx.com/file/1592630/> or <http://www.archive.org/details/Life.science.futureinRussian...>, <https://www.scribd.com/search-documents?query=Bolonkin> , <http://www.scribd.com/doc/45901785>
- 10) **LIFE. SCIENCE. FUTURE (Biography notes, researches and innovations)**. Lambert, 2010, 208 pgs. 16 Mb. ISBN: 978-3-8473-0839-3 . <http://vixra.org/pdf/1309.0205v1.pdf> <http://vixra.org/abs/1309.0205>, <http://www.lulu.com>, search “Bolonkin”; <http://www.archive.org/details/Life.Science.Future.biographyNotesResearchesAndInnovations>, <https://www.scribd.com/search-documents?query=Bolonkin>, <http://www.scribd.com/doc/48229884>, or http://www.publishamerica.net/sc/productsearch.cgi?search_field=Bolonkin&storeid=*1ed736148e14b9de8c3184b7f08fb4a634 ,

or http://www.amazon.com/s/ref=nb_sb_noss?url=search-alias%3Dstripbooks&field-keywords=Bolonkin&x=12&y=19 .

- 11) **Universe, Human Immortality and Future Human Evaluation** . Elsevier. 2010г., 124 pages, 4.8 Mb. ISBN-10: 0124158013, ISBN-13: 978-0124158016
<http://www.archive.org/details/UniverseHumanImmortalityAndFutureHumanEvaluation>, ??
<http://vixra.org/abs/1207.0020>, <http://intellectualarchive.com/?link=find#detail>,
<https://www.scribd.com/search-documents?query=Bolonkin>
<http://www.scribd.com/doc/52969933/> bloked 7 26 12.
<https://independent.academia.edu/AlexanderBolonkin/Papers> .
- 12) **Human immortality and Electronic Civilization** , Publish America, Baltimore, USA, 2010,140 ps.
 ISBN: 978-1-4489-3969-5, 140 pages, 5.5 x 8.5, \$9.95.
http://www.publishamerica.net/sc/productsearch.cgi?search_field=Bolonkin&storeid=*1ed736148e14b9de8c3184b7f08fb4a634 or
http://www.amazon.com/s/ref=nb_sb_noss?url=search-alias%3Dstripbooks&field-keywords=Bolonkin&x=12&y=19
- 13) **Memoirs of Soviet Political Prisoner** , Publish America, Baltimore, USA, 2010,108 ps.
 ISBN: 978-1-4489-4414-9, 108 Pages, 5.5 x 8.5, \$9.95.
http://www.publishamerica.net/sc/productsearch.cgi?search_field=Bolonkin&storeid=*1ed736148e14b9de8c3184b7f08fb4a634
- 14) **LIFE. SCIENCE. FUTURE (Biography notes, researches and innovations)** .Publish America,Baltimore, USA,2010,208 pgs.16 Mb. ISBN: 978-1-4512-7983-2, 306 Pages, 6x9, \$15.95.
<http://www.archive.org/details/Life.Science.Future.biographyNotesResearchesAndInnovations> ,
<http://www.lulu.com> search "Bolonkin" or
<http://www.lulu.com/shop/search.ep?keyWords=Bolonkin&sorter=relevance-desc>
http://www.publishamerica.net/sc/productsearch.cgi?search_field=Bolonkin&storeid=*1ed736148e14b9de8c3184b7f08fb4a634 or
http://www.amazon.com/s/ref=nb_sb_noss?url=search-alias%3Dstripbooks&field-keywords=Bolonkin&x=12&y=19 . or
<http://www.scribd.com/doc/48229884>.
- 15) **Femtotechnologies and Revolutionary Projects** . Lambert, USA, 2011. 538 p. 16 Mb.
 ISBN: 978-3-8473-0839-0. <http://vixra.org/abs/1309.0191>,
<http://www.archive.org/details/FemtotechnologiesAndRevolutionaryProjects> ,
<https://independent.academia.edu/AlexanderBolonkin/Papers>
- 16) **Life and Science**. Lambert Academic Publishing, Germany, 2011, 205 pgs. ISBN: 978-3-8473-0839-3.
<http://www.archive.org/details/Life.Science.Future.biographyNotesResearchesAndInnovations> ,
[https://www.academia.edu/11001078/LIFE. SCIENCE. FUTURE Biography notes researches and innovations](https://www.academia.edu/11001078/LIFE._SCIENCE._FUTURE_Biography_notes_researches_and_innovations) ,
<https://www.scribd.com/search-documents?query=Bolonkin> , <http://www.scribd.com/doc/48229884>,
- 17) **Universe, Human Immortality and Future Human Evaluation**, Elsevier, 2011.
<http://www.archive.org/details/UniverseHumanImmortalityAndFutureHumanEvaluation>,
<http://intellectualarchive.com/?link=find#detail>, <http://vixra.org/abs/1207.0020>
<https://independent.academia.edu/AlexanderBolonkin/Papers>
- 18) **Innovations and New Technologies**. Scribd, 30/7/2013. 309 pgs. 8 Mb. <http://vixra.org/abs/1307.0169>,
<http://archive.org/details/InnovationsAndNewTechnologies>, <http://intellectualarchive.com/> , #1115,
<http://www.scribd.com/doc/157098739/Innovations-and-New-Technologies-7-9-13> ,
https://www.academia.edu/11000128/Innovations_and_New_Technologies_v.2 (new)
- 19) **Femtotechnologies and Innovative Projects**, NY., Lulu (www.lulu.com, ID 12837818), 2011, 518 ps.,
 ISBN 978-1-105-64111-4, ISBN 978-1-300-48671-8. <http://vixra.org/abs/1309.0191> (OK).
http://archive.org/details/FemtotechnologiesAndRevolutionaryProjects_873,
<http://www.twirpx.com/file/1593422/> .
- 20) **Femtotechnologies and Revolutionary Projects**, Lambert (Academic Publishing), UK.,
 2010, 530ps.,ISBN: 978-3-8473-2229-0.
http://archive.org/details/FemtotechnologiesAndRevolutionaryProjects_873 ,
<http://www.twirpx.com/file/1593422/> .
<https://labs.inspirehep.net/submit/literature/11822>
- 21) Slides for book "Electronic Immortality",
<http://www.scribd.com/doc/162847655/Immortality-1-2-3-4-5-6-7-8-9-10-11>
- 22) **Innovations and New Technologies (v2)** . Lulu, 2013. 465 pgs. 10.5 Mb, ISBN: 978-1-312-62280-7. <https://archive.org/details/Book5InnovationsAndNewTechnologiesv2102014/>,
<http://intellectualarchive.com/> Search: Bolonkin, <http://www.twirpx.com/file/1593437/> ,
http://samlib.ru/editors/b/bolonkin_a/a/innovationsandnewtechnologies.shtml

- https://www.academia.edu/11058394/Innovations_and_New_Technologies_v.2_USA_Lulu_2013
- 23) Болонкин А. А. **Теория полета летающих моделей**. — М.: Изд-во ДОСААФ, 1962. — 327 с.
<http://www.twirpx.com/file/138441/> Скачано в Download DJVU (Temp),
но посмотреть не мог?
- 24) Болонкин А.А., **Новые методы оптимизации и их применение**. МВТУ им. Баумана, 1972г., 220 стр. (См. РГБ, Российская Государственная Библиотека, Ф-861-83/1809-6).
<http://vixra.org/abs/1504.0011> v4.
<http://viXra.org/abs/1502.0137> v3; <http://viXra.org/abs/1502.0055> v2;
<http://viXra.org/abs/1501.0228>, (v1, old) ,
<https://archive.org/details/BookOptimization3InRussianInWord20032415> v2,
https://archive.org/details/BookOptimization3InRussianInWord20032415_201502 v3,
<https://archive.org/details/BookOptimizationInRussian> (old),
<http://intellectualarchive.com/> (v2) again 2 6 15 ?, v3 2 16 15, (v.4) 3 17 15 (must be<7Mb)
<http://www.twirpx.com/file/1592607/> 2 6 15 загрузил v2.
<http://www.twirpx.com/file/1605604/?mode=submit> v3, загрузил 2 16 15
<https://www.academia.edu/11054777/> v.4
- 25) Болонкин А.А., **Обыкновенный коммунизм**. Lulu, USA, 2014. 2411Кв. ISBN 978-1-312-95386-4.
<https://archive.org/details/BookOrdinaryCommunism2122814FromPenskyAfter2NdCorr>
<http://intellectualarchive.com/> #1437 , <http://www.twirpx.com/file/1592636/>
http://samlib.ru/editors/b/bolonkin_a_a/bookordinarycommunism102414.shtml
- 26) Болонкин А.А., **Новые методы оптимизации и их применение в задачах динамики управляемых систем**. Автореферат диссертации на соискание ученой степени доктора технических наук. Москва, ЛПИ, 1971г., 28 стр. <http://viXra.org/abs/1503.0081>, 3 11 15.
<http://www.twirpx.com> , <https://archive.org> ?(не загружается?>7 Mb?)
http://samlib.ru/editors/b/bolonkin_a_a/ ,
<https://independent.academia.edu/AlexanderBolonkin/Papers>, <http://intellectualarchive.com/> #1488.
- 27) **List #1 Bolonkin's publications in 1965-1972**.(in Russian). <https://archive.org/details/No1119651972>
- 28) **The Development of Soviet Rocket Engines (For Strategic Missiles)**. 1991, Delphic Associates, Inc., USA, 133 ps., ISBN 1-55831-130-0.
- 29) Chapter: **Aviation, Motor and Space Designs**. In Collection: "Emerging Technology in the Soviet Union". Part 1: 1990, Delphic Associates, Inc., USA, pp.33-80., ISBN 1-55831-117-1.
- 30) Chapter: **Aviation Designs and Other Projects**. In Collection: "Emerging Technology in the Soviet Union". Part 2: 1990, Delphic Associates, Inc., USA, 43 p., ISBN 1-55831-117-1.
- 31) **Optimal Trajectories of Air and Space Vehicles**. For BP.
<https://archive.org/details/ArticleOptimalTrajectoriesOfAirAndSpaceVehicles4115>,
<https://independent.academia.edu/AlexanderBolonkin/Papers>,
<http://intellectualarchive.com/?link=find#detail> #1498, <http://vixra.org/pdf/1504.0015v1.pdf>
- 32) **Bolonkin in Russian WIKI** in Word-93
<https://archive.org/details/BolonkinInWIKIInCodesWord932215> ,
<http://intellectualarchive.com/?link=find#detail> #1524.
- 33) **Докторская диссертация** А.Болонкина: Новые методы оптимизации и их применение в задачах динамики управляемых систем. ЛПИ 1969г.
https://drive.google.com/file/d/0BzICj79-4Dz9YTJOUHVhRIFZUVE/view?usp=drive_web Dissertation
[Optimization 1-2 9 30 15.doc, http://viXra.org/abs/1511.0214](http://viXra.org/abs/1511.0214) ,
<http://viXra.org/abs/1509.0267> Part 1, <http://vixra.org/abs/1509.0265> Part2,
<https://archive.org/details/NewMethodsOfOptimizationAndItsApplication.Part1InRussian>

<https://www.academia.edu/s/2a5a6f9321?source=link>, <http://www.twirpx.com>,

34) **Краткая информация о Болонкине.** <http://viXra.org/abs/1512.0229>

https://archive.org/details/122814_201512, В кодах ВИКИ https://archive.org/details/Index_of/7/items/BolonkinInWIKIInCodesWord932215/. (?), <https://www.academia.edu/s/acc8c35402?source=link>

<https://www.scribd.com/doc/292298227/%D0%A1%D1%82%D0%B0%D1%82%D1%8C%D1%8F-%D0%BE-%D0%B4-%D1%82-%D0%BD-%D0%90%D0%BB%D0%B5%D0%BA%D1%81%D0%B0%D0%BD%D0%B4%D1%80%D0%B5-%D0%91%D0%BE%D0%BB%D0%BE%D0%BD%D0%BA%D0%B8%D0%BD%D0%B5-2-1-27-13-For-Merge>

<http://intellectualarchive.com> #1647. <http://newconcepts.club/website/articles/1500.html> ,

35) Болонкин А. А., **Об одном методе решения оптимальных задач.** Известия СО Академии наук

СССР, вып.2, № 8, июнь 1970 г. <http://www.twirpx.com/file/1837179/>, <http://viXra.org/abs/1512.0357> ,
<http://vixra.org/pdf/1512.0357v1.pdf>

<https://archive.org/download/ArticleMethodSolutionOfOptimalProblemsByBolonkin> , <https://www.academia.edu>

36) Приговор Мосгорсуда правозащитнику Александру Болонкину. 23 November 1973.

https://archive.org/details/abolonkin_gmail , <http://intellectualarchive.com> #1657,
https://ia601509.us.archive.org/17/items/abolonkin_gmail/%d0%9f%d1%80%d0%b8%d0%b3%d0%be%d0%b2%d0%be%d1%80%20%d0%a5%d0%be%d1%80%d0%be%d1%88%d0%b0%d1%8f%20%d0%ba%d0%be%d0%bf%d0%b8%d1%8f.pdf ,
<http://www.twirpx.com/file/1836584/> ,
www.IntellectualArchive.com/getfile.php?file=H0HaP3n8IKT&orig_file =Приговор Хорошая копия Word 2003.doc

Articles (2009-2014) (loading is free):

1) **Femtotechnology: Nuclear AB-Material with Fantastic Properties.**

American Journal of Engineering and Applied Science, Vol. 2, #2, 2009, pp.501-514. Presented as paper AIAA-2009-4620 to 7th Annual International Energy Convention Conference, 2-5 August 2009, Denver, CO, USA.

<http://viXra.org/abs/1309.0201>, <http://www.scribd.com/doc/24046679/>. Book “Femtotechnology”, Lulu, 2009.

2) **Femtotechnology: Design of the Strongest AB-Matter for Aerospace.** Presented as paper AIAA-2009-4620 to 45

Joint Propulsion Conference, 2-5 August, 2009, Denver CO, USA. See also closed paper AIAA-2010-1556 in 48

Aerospace Meeting, New Horizons, 4 – 7 January, 2010, Orlando, FL, USA. Global Science Journal

<http://gsjournal.net/Science-Journals/Research%20Papers-Engineering%20%28Applied%29/Download/5713> ,

Journal of Aerospace Engineering, Oct. 2010, Vol. 23, No. 4, pp.281-292. <http://viXra.org/abs/1401.0173> ,

<http://www.archive.org/details/FemtotechnologyDesignOfTheStrongestAb-matterForAerospace> ,

<http://www.scribd.com/doc/57369206/Femtotechnology-Design-of-the-Strongest-AB-Matter-for-Aerospace> ,

<http://intellectualarchive.com> #1362 . <http://gsjournal.net/Science-Journals/Essays/View/5713> ,

https://www.academia.edu/14515249/FEMTOTECHNOLOGY_THE_STRONGEST_AB-MATTER_FOR_AEROSPACE

3) **Converting of Any Matter to Nuclear Energy by AB-Generator**

American Journal of Engineering and Applied Science, Vol. 2, #4, 2009, pp.683-693. Presented as paper AIAA-2009-5342 in 45 Joint Propulsion Conferences, 2-5 August, 2009, Denver, CO.

<http://viXra.org/abs/1309.0200>, <https://www.scribd.com/search-documents?query=Bolonkin>,

https://www.academia.edu/14515398/Converting_of_Matter_to_Nuclear_Energy

4) **Converting of any Matter to Nuclear Energy by AB-Generator and Aerospace**

Journal of Energy Storage and Conversion, Vol.3, #1, January-June 2012, p. 43-69.

Book “Femtotechnology”, Lulu, 2009. <http://viXra.org/abs/1604.0271>,

<http://www.archive.org/details/ConvertingOfAnyMatterToNuclearEnergyByAb-generatorAndAerospace> ,

- [#1361](http://intellectualarchive.com), <http://gsjournal.net/Science-Journals/Essays/View/5714> ,
<http://GSJournal.net> (10/3/14),. <http://viXra.org/abs/1508.0305>, <http://viXra.org/abs/1604.0271>,
<https://www.scribd.com/search-documents?query=Bolonkin>
- 5) **Превращение материи в ядерную энергию АБ-генератором и фотонные ракеты** (in Russian) (популярное изложение научной статьи) .
<http://www.archive.org/details/ConvertingOfMatterInMuclerEnergy>. (see 26)
<http://viXra.org/abs/1508.0307>, [# 8563525](http://vixra.org)
- 6) **RailGun Space Launcher**, Journal of Aerospace Engineering, Oct. 2010, Vol. 23, No. 4, pp.293-299.
<http://viXra.org/abs/1401.0172>, <https://www.scribd.com/search-documents?query=Bolonkin> ,
<http://www.scribd.com/doc/202176675/Magnetic-Space-Launcher>
- 7) **Artificial Explosion of Sun. AB-Criterion for Sun Detonation.**
Journal "Scientific Israel-Technological Advantages", Israel, Vol.13, #1, 2011, pp.45-64.
CWEEE, Computational Water, Energy, and Environmental Engineering. Volume 2, Number 3, July 2013 , Alexander Bolonkin, Joseph Friedlander [Abstract](#) | [References](#) [PDF](#) (372KB), PP. 83-96,
Pub. Date: July 11, 2013 DOI: 10.4236/cweee.2013.23010, [Open Access Library](#).
http://sita-journal.com/files/2_Cur.Iss_no.1.pdf , <http://viXra.org/abs/1309.0198>,
<http://www.archive.org/details/ArtificialExplosionOfSun.Ab-criterionForSolarDetonation>,
<https://www.scribd.com/search-documents?query=Bolonkin>. <http://www.scribd.com/doc/24541542/> ,
- 8) **Blanket for Cities.** Journal of Environmental Protection , Volume 02, Number 04 (June 2011). PP.327-341, Pub. Date:2011-06-17, <http://viXra.org/abs/1309.0197>, <http://www.scribd.com/doc/24050198> ,
<http://www.archive.org/details/DomeShieldAMethodToContainRadioactiveDustFromDamagedNuclearStations> ,
[#1363](http://intellectualarchive.com) .
- 9) **Man in Outer Space without a Special Space Suit.** (See 36)
American Journal of Engineering and Applied Science 2(4), 573-579, 2009, ISSN 1991-7020.
<http://viXra.org/abs/1309.0199>, <https://www.scribd.com/search-documents?query=Bolonkin>,
<http://www.scribd.com/doc/24050793/>,
<http://www.archive.org/details/LiveOfHumanityInOuterSpaceWithoutSpaceSuite> .
https://www.academia.edu/14515917/Man_in_Outer_Space_without_Space_Suite
- 10) **Aerial-High-Altitude-Gas-Pipeline.** The Open Petroleum Engineering Journal, 2009, 2, 24-35.
<http://www.benthamsience.com/open/topej/articles/V002/24TOPEJ.pdf> ,
<http://www.archive.org/details/AerialAltitudeGasPipeline>, <https://www.scribd.com/search-documents?query=Bolonkin>, <http://www.scribd.com/doc/24051138/> ,
[#1364](http://intellectualarchive.com) .
- 11) **"Magnetic Space Launcher"** has been published online 15 December 2010, in the ASCE, Journal of Aerospace Engineering (Vol. 24, No. 1, 2011, pp.124-134). <http://www.scribd.com/doc/24051286/> ,
<https://archive.org/details/MagneticSpaceLauncher> (in PDF) . <https://www.scribd.com/search-documents?query=Bolonkin>
- 12) **An Innovative Solar Desalination System.** <http://www.scribd.com/doc/24051638/> Deleted .
Published in Badesky Collection together Neumann and Friedlander. Book "Femtotechnology",Lulu,2011.
- 13) **Economically Efficient Inflatable 3-km Tower for Communication**
<http://www.scribd.com/doc/24051794/> Book "Femtotechnology", Lulu, 2011.
- 14) **Production-of-Fresh-Water-by-Exhaust-Gas-of-Electric-and-Industrial-Plants.**
Journal "Scientific Israel-Technological Advantages". Vol.13, #1, 2011, pp.65-71.
<https://archive.org/details/ProductionOfFreshWaterByExhaustGas>,
<http://www.scribd.com/doc/24052023/>,
[#1365](http://intellectualarchive.com) .
Book "Femtotechnology", Lulu, 2011.

- 15) **Sea-Extractor-of-Freshwater**,
<https://archive.org/details/ProductionOfFreshwaterAndEnergyFromAtmosphere> ,
<http://www.scribd.com/doc/24052153/>
- 16) **AB-Wind-Wall**. Journal "Scientific Israel-Technological Advantages" , Vol.12, #4, 2010.
<http://www.scribd.com/doc/24052321/> Book "Femtotechnology", Lulu, 2009.
- 17) **Utilization of Wind Energy at High Altitude**. Journal "Smart Grid and Renewable Energy",
 2011,#2, pp.75-85. <http://www.archive.org/details/UsingOfHighAltitudeWindEnergy> ,
 Book: New Concepts.
- 18) **Использование Энергии Ветра Больших Высот** (In Russian).
<http://www.scribd.com/doc/24058357/>
- 19) **"Magnetic Suspended AB-Structures and Motionless Space Stations,"**
 has been published online 15 December 2010, in the ASCE, Journal of Aerospace Engineering
 (Vol.24,No.1, 2011, pp.102-111), <https://archive.org/details/MagneticSuspendedAb-structures> ,
<http://www.scribd.com/doc/25883886/> . <http://intellectualarchive.com> #1366 .
- 20) **Природная цель Человечества – статья Богом**. <http://www.scribd.com/doc/26753118>
 (Russian).
- 21) **Natural Purpose of Mankind is to become a God**. <http://www.scribd.com/doc/26833526>
 Book "Femtotechnology", by A.Bolonkin, Lulu, 2009. Ch.7B. ISBN: 978-1-300-448671-8.
<http://vixra.org/abs/1309.0191>,
- 22) **Magnetic Space AB-Accelerator**. <http://www.scribd.com/doc/26885058> ,
 Book: A.Bolonkin "Femtotechnology and Revolutionary Projects", Lambert, 2011.
- 23) **Lower Current and Plasma Magnetic Railguns**. <http://www.scribd.com/doc/31090728>
 Propulsion: Types, Technology and Applications. NOVA. 2011. Book "Femtotechnology", Lulu, 2009.
https://www.novapublishers.com/catalog/product_info.php?products_id=24848
- 24) **Review of Space Towers**. Book: A.Bolonkin, "Femtotechnology and Revolutionary Projects", Lambert,
 2011.. 538 p. 16 Mb.,Ch.13. ISBN: 978-3-8473-0839-0.
<http://vixra.org/abs/1309.0191>,<http://arxiv.org/ftp/arxiv/papers/1002/1002.2405.pdf> ,
<http://www.scribd.com/doc/75519828/>,<http://www.scribd.com/doc/26270139>,
<http://vixra.org/abs/1310.0009> .
- 25) **Новые идеи в технологии, технике и оружии**. <http://vixra.org/abs/1508.0308> ,
<https://www.scribd.com/search-documents?query=Bolonkin> . <http://www.scribd.com/doc/27785947/>,
- 26) **Превращение материи в ядерную энергию АБ-генератором и фотонные ракеты**
 (популярное изложение научной статьи). <http://www.scribd.com/doc/45901918/>,
<http://www.archive.org/details/ConvertingOfMatterInMuclerEnergy>. (see 5)
<http://vixra.org/abs/1508.0307>,
- 27) **Wireless Transfer of Electricity from Continent to Continent**.
 International Journal of Sustainable Engineering. 2011. Vol.4, #4, p. 290-300.
<http://www.archive.org/details/WirelessTransferOfElectricityFromContinentToContinent>
<http://www.scribd.com/doc/42721638/>, <http://intellectualarchive.com> #1367
- 28) **High-Altitude-Long-Distance-Cheap-Aerial-Antenna**.
<http://www.scribd.com/doc/24052420/>
- 29) **Robot as Person. Personhood. Three Prerequisites or Laws of Robots**. Book
 "Femtotechnology", Lulu, 2009. <http://www.scribd.com/doc/57532296/Robot-as-Person-Personhood-Three-Prerequisites-or-Laws-of-Robots> ,
<http://www.archive.org/details/RobotAsPersonpersonhood.ThreePrerequisitesOrLawsOfRobots>
- 30) **Review of new ideas, innovations of non-rocket propulsion systems for Space Launch and Flight (Part 1)**. <http://intellectualarchive.com> #1368, <http://www.scribd.com/doc/54655572/> ,
<http://www.archive.org/details/ReviewOfNewIdeasInnovationOfNon-rocketPropulsionSystemsForSpace>

- Book: A.Bolonkin, "Femtotechnology and Revolutionary Projects", Lambert, 2011. 538 pgs.
- 31) **Review of new ideas, innovations of non-rocket propulsion systems for Space Launch and Flight (Part 2).** <http://www.scribd.com/doc/54656166/>, Book "Femtotechnology", Lulu, 2009. <http://www.archive.org/details/Review2OfNewIdeasInnovationsOfNonrocketPropulsionSystemsForSpace>
Book: A.Bolonkin "Femtotechnology and Revolutionary Projects", Lambert, 2011.
- 32) **Review of new ideas, innovations of non-rocket propulsion systems for Space Launch and Flight (Part 3).** [#1369](http://intellectualarchive.com), <http://www.scribd.com/doc/54656800/>, <http://www.archive.org/details/Review3OfNewIdeasInnovationsOfNon-rocketPropulsionSystemsForSpace>,
Book "Femtotechnology", Lulu, 2009.
Book: A.Bolonkin "Femtotechnology and Revolutionary Projects", Lambert, 2011.
- 33) **Femtotechnology: AB-Needles. Fantastic properties and Applications.** Scribd, 2010,
Journal of Energy Storage and Conversion, Vol.3, #1, January-June 2012, p. 15-41.
<http://vixra.org/abs/1111.0064>, [#1370](http://intellectualarchive.com),
<http://www.archive.org/details/FemtotechnologyAb-needles.FantasticPropertiesAndApplications>
<http://vixra.org/pdf/1111.0064v1.pdf>, <http://www.scribd.com/doc/55054819/>,
Book: Femtotechnology, Lulu, 2009.
Published in collection: Propulsion: Types, Technology and Applications. NOVA. 2011.
https://www.novapublishers.com/catalog/product_info.php?products_id=24848
- 34) **АБ-материя и иглы. Потрясающие свойства и применение (популярное изложение научной статьи).** <http://www.archive.org/details/Ab-matterAndAb-needles.FantasticProperties> -
http://www.pravda.ru/science/eureka/hypotheses/23-05-2011/1077601-nuclon_materia-0/,
<http://vixra.org/abs/1508.0307>
- 33) **Space Wing Electro Relativistic AB-Ship.**
I J N N A, 4(2) January-June 2012, pp. 13-19 • ISSN: 0974-6048, Collection "Femto"
Collection: Interstellar Medium: New Research. NOVA, 2011.
http://www.novapublishers.com/catalog/product_info.php?products_id=22357
<http://www.scribd.com/doc/56874853/Space-Wing-Electro-Relativistic-AB-Ship>
<http://www.archive.org/details/SpaceWingElectroRelativisticAb-ship>
[#1371](http://intellectualarchive.com),
- 34) **"Floating Cities on Ice Platform".** "The Open Ocean Engineering Journal". Vol. 3, 2010, pp. 1-11.
<http://www.benthamsience.com/open/tooej/articles/V003/1TOOEJ.pdf>, [#1371](http://intellectualarchive.com),
- 35) **Production of Freshwater and Energy from Earth's Atmosphere.** Journal "Smart Grid and Renewable Energy", 2011,#2, pp.86-98. <http://www.scirp/journal/sqgre/>. Book: New Concepts.2007
https://archive.org/details/ProductionOfFreshwaterAndEnergyFromAtmosphere_370.
[#1372](http://intellectualarchive.com),
- 36) **Man in Outer Space without a Special Space Suit.** (see 9)
American Journal of Engineering and Applied Sciences 2 (4): 573-579, 2009, ISSN 1941-7020.
<http://www.scribd.com/doc/24050793>, <https://www.nihms.nih.gov/db/sub.cgi?mid=688697>
https://www.academia.edu/14515917/Man_in_Outer_Space_without_Space_Suite
Book: A.Bolonkin, "Femtotechnology and Revolutionary Projects", Lambert, 2011.??
- 37) **"Air Transfer of Mechanical Energy"**, International Journal "Actual problems of aviation and aerospace systems: processes, models, experiments" (No. 1(19), v.10, 2005, pp.102-110). Coll. "Non-Rocket..."
- 38) **Suppression of Forest Fire by Helicopter without Water.** Journal "Scientific Israel- Technological Advantages", Vol.12, 4, 2010. <http://www.scribd.com/doc/24052503/>, <http://vixra.org/abs/1410.0015>
<http://www.archive.org/details/SuppressionOfForestFireByHelicopterWithoutWater>
Book: A.Bolonkin "Femtotechnology and Revolutionary Projects", Lambert, 2011.
[#1374](http://intellectualarchive.com),
- 39) **"Transparent Inflatable Column Film Dome for Nuclear Stations, Stadiums, and Cities,"**
Science and Technology of Nuclear Installations, vol. 2011, Article ID 175492, 13 pages, 2011.
doi:10.1155/2011/175492. <http://www.hindawi.com/journals/stni/2011/175492/>

- 40) **Problems of Science Research and Technical Progress.** 2011, 15 pages.
Together with Neumann and Fridlander. Scientific Israel - Technological Advantages Vol. 14, No 1, 2012. <http://www.scribd.com/doc/74436485/>,
<http://vixra.org/pdf/1112.0001v1.pdf> ,
- 41) **Air Catapult Transportation.** NY, USA, Archuve, 2011 IJEE.. <http://viXra.org/abs/1310.0065> ,
<http://www.archive.org/details/AirCatapultTransport>, [#1375](http://intellectualarchive.com),
<http://www.scribd.com/doc/79396121/Article-Air-Catapult-Transportation-for-Scribd-1-25-12>,
Book: Recent Patents on Electrical & Electronic Engineering, Bentham Science Publishers, Vol.5, No.3, 2012.
- 42) **Long Distance Bullets and Shells.**
International Journal of Aerospace Sciences. p-ISSN: 2169-8872, e-ISSN:2169-8899. 2013; 2(2): 29-36
<http://archive.org/details/LongDistanceBulletsAndShells> , [#1375](http://intellectualarchive.com),
<http://www.scribd.com/doc/99132995/Long-Distance-Bullets-and-Shells> ,
<http://viXra.org/abs/1207.0012> (?)
- 43) **New Self-Propelled Penetration Bomb.** International Journal of Advanced Engineering Applications, Vol.2, Iss.5, pp.91-105 (2013).
<http://fragrancejournals.com/wp-content/uploads/2013/03/IJAEA-2-5-14.pdf>
<http://www.scribd.com/doc/99131896/NEW-SELF-PROPELLED-PENETRATION-BOMB>
<http://archive.org/details/NewSelf-propelledPenetrationBomb>, [#137](http://intellectualarchive.com),
<http://viXra.org/abs/1207.0013>
- 44) **Delivery of Asteroids to the Earth.** IJES, Vol.3, No.2, July-December 2012, pp.55-62.
<http://archive.org/details/CaptureAndDeliveryOfAsteroidToTheEarth> .
<https://archive.org/details/TransportationOfAsteroidToTheEarth>, [#138](http://intellectualarchive.com),
<http://www.scribd.com/doc/99132263/Capture-and-Delivery-of-Asteroid-to-the-Earth>,
<http://viXra.org/abs/1207.0011>
- 45) **Universe (part 1). Relations between Time, Matter, Volume, Distance, and Energy.** JOURNAL OF ENERGY STORAGE AND CONVERSION, JESC : July-December 2012, Volume 3, #2, pp. 141-154. <http://viXra.org/abs/1207.0075> , [#139](http://intellectualarchive.com),
<http://www.scribd.com/doc/100541327/> ,
<http://archive.org/details/Universe.RelationsBetweenTimeMatterVolumeDistanceAndEnergy>
- 46) **Universe (Part 2): Rolling of Space (Volume, Distance), Time, and Matter into a Point.** <http://www.scribd.com/doc/120693979>
- 47) **“Remarks about Universe” (part 1-2),** International Journal of Advanced Engineering Applications, IJAEA. Vol.1, Iss.3, pp.62-67 (2012) .
<http://viXra.org/abs/1309.0196> , <http://fragrancejournals.com/wp-content/uploads/2013/03/IJAEA-1-3-10.pdf>
- 48) **Cheap Protection of New York City and New Jersey from Storm.**
<https://archive.org/details/CheapProtectionOfCityAndOtherPlaceFromFloodAndHurricane>,
[#1380](http://intellectualarchive.com) .
<http://www.scribd.com/doc/112009139/Article-Protection-of-NY-From-Storm-2006> (In Macro)
- 49) **Protection of the Earth from Asteroids.** [#1381](http://intellectualarchive.com) ,
<http://viXra.org/abs/1212.0006>, <http://archive.org/details/ProtectionOfTheEarthFromTheAsteroid>,
<http://www.scribd.com/doc/115171595/Protection-of-the-Earth-from-the-Asteroid>
- 50) **Re-Entry Space Apparatus to Earth.** General Science Journal, #5289.
[http://www.gsjournal.net/Science-Journals/Research%20Papers-Engineering%20\(Applied\)/Download/5289](http://www.gsjournal.net/Science-Journals/Research%20Papers-Engineering%20(Applied)/Download/5289)
<http://archive.org/details/ReentryOfSpaceCraftToEarthAtmosphere>, [#1381](http://intellectualarchive.com),
<http://www.scribd.com/doc/115174092/REENTRY-OF-SPACE-CRAFT-TO-EARTH-ATMOSPHERE>
<http://viXra.org/abs/1212.0003>
- 51) **Hypersonic Ground Electric AB Engine.**

- Academic Journal of Applied Sciences Research (AJASR), Volume-1, Issue-1, 2013.
<http://archive.org/details/HypersonicGroundElectricAbEngine>,
<http://www.scribd.com/doc/119462908/Hypersonic-Ground-Electric-AB-Engine>,
<http://intellectualarchive.com> #1383,
 International Journal of Advanced Engineering Applications, Vol.1, Iss.4, pp.32-43 (2012)
<http://fragrancejournals.com/wp-content/uploads/2013/03/IJAEA-1-4-4.pdf>,
<https://archive.org/details/HypersonicCatapultTransportation> .
- 52) "**Production of Freshwater and Energy from Earth's Atmosphere**", Smart Grid and Renewable Energy (SGRE), Vol.02 No.02, 2011. 826 downloads and the citations based on the statistics from Google Scholar, Please access the following link: [Google Scholar](#) (2011). Col. "New Concepts..."
https://archive.org/details/ProductionOfFreshwaterAndEnergyFromAtmosphere_370 .
<http://intellectualarchive.com> #1384,
- 53) "**Protection of Environment from Damaged Nuclear Station and Transparent Inflatable Blanket for Cities. Protection from Radioactive Dust and Chemical, Biological Weapons**", Journal of Environmental Protection (JEP), Vol. 02 No.04, 2011 , Article has 738 downloads and the citations based on the statistics from Google Scholar, Please access the following link: [Google Scholar](#) (2011).
- 54) **Energy Transfers from Airborne Wind Turbine: Review and Comparison of Airborne Turbines**. International Journal of Advanced Engineering Applications, 2013, Vol.1, Iss.4, pp.44-64.
<http://viXra.org/abs/1304.0159> , <http://archive.org/details/EnergyTransfersFromAirborneWindTurbine>,
<http://www.scribd.com/doc/138350864/Energy-Transfers-from-Airborne-Wind-Turbine-Review-and-Comparison-of-Airborne-Turbines-Article-Transfer-energy-from-air-borne-turb> ,
<http://fragrancejournals.com/wp-content/uploads/2013/03/IJAEA-1-4-5.pdf>
- 55) **Underground Explosion Nuclear Energy**.
 International Journal of Advanced Engineering Applications, Vol.1, Iss.6, pp.48-61 (2012).
[www.IntellectualArchive.com/getfile.php?file=TOe6vifJr1D&orig_file=Article Explosion Nuclear Energy2 for Storage 3 8 13.doc](http://www.IntellectualArchive.com/getfile.php?file=TOe6vifJr1D&orig_file=Article%20Explosion%20Nuclear%20Energy2%20for%20Storage%203%208%2013.doc), <http://viXra.org/abs/1305.0039> ,
<http://archive.org/details/UndergroundExplosionNuclearEnergy>, <http://intellectualarchive.com> #1385,
<http://fragrancejournals.com/wp-content/uploads/2013/03/IJAEA-1-6-7.pdf> , <http://www.scribd.com> ,
www.fragrancejournals.com/IJAEA, Request #284619 .
- 56) **Inexpensive Mini Thermonuclear Reactor**.
 International Journal of Advanced Engineering Applications, Vol.1, Iss.6, pp.62-77 (2012)
<http://archive.org/details/InexpensiveMiniThermonuclearReactor>, <http://viXra.org/abs/1305.0046>
[www.IntellectualArchive.com/getfile.php?file=gIhLJg6ZAaN&orig_file=Article Thermonuclear Reactor for Storage 5 7 13.doc](http://www.IntellectualArchive.com/getfile.php?file=gIhLJg6ZAaN&orig_file=Article%20Thermonuclear%20Reactor%20for%20Storage%205%207%2013.doc) (They made "Privet")
<http://ru.scribd.com/doc/140040026/Inexpensive-Mini-Thermonuclear-Reactor-Article-Thermonuclear-Reactor-for-Storage-5-7-13>, <http://fragrancejournals.com/wp-content/uploads/2013/03/IJAEA-1-6-8.pdf>
- 57) **Electron Air Hypersonic Propulsion**. International Journal of Advanced Engineering Applications, Vol.1, Iss.6, pp.42-47 (2012). <http://viXra.org/abs/1306.0003>, <http://intellectualarchive.com> #1386,
<http://www.scribd.com/doc/145165015/Electron-Air-Hypersonic-Propulsion> ,
<http://www.scribd.com/doc/146179116/Electronic-Air-Hypersonic-Propulsion> ,
<http://fragrancejournals.com/wp-content/uploads/2013/03/IJAEA-1-6-6.pdf> .
- 58) **Electronic Wind Generator**.
 Electrical and Power Engineering Frontier Sep. 2013, Vol. 2 Iss. 3, pp. 64-71.
<http://www.academicpub.org/epef/Issue.aspx?Volume=2&Number=3&Abstr=false>
<http://viXra.org/abs/1306.0046> , www.IntellectualArchive.com, <http://intellectualarchive.com> #1387,
<https://archive.org/details/ArticleElectronWindGenerator6613AsterShmuelWithPicture>
<http://www.scribd.com/doc/146177073/Electronic-Wind-Generator> ?
- 59) **Electron Hydro Electric Generator**. International Journal of Advanced Engineering Applications.

ISSN: 2321-7723 (Online), Special Issue I, 2013.

http://fragrancejournals.com/?page_id=18, <http://vixra.org/abs/1306.0196>,

<http://www.scribd.com/doc/149489902/Electron-Hydro-Electric-Generator> , #1089

http://archive.org/details/ElectronHydroElectricGenerator_532, <http://intellectualarchive.com>,

60) Electron Super Speed Hydro Propulsion.

International Journal of Advanced Engineering Applications, Special Issue 1, pp.15-19 (2013)

<http://vixra.org/abs/1306.0195>, <http://archive.org/details/ElectronSuperSpeedHydroPropulsion>

<http://www.scribd.com/doc/149490731/Electron-Super-Speed-Hydro-Propulsion>

<http://intellectualarchive.com>, Search: Bolonkin #1090

<http://fragrancejournals.com/wp-content/uploads/2013/03/Special-Issue-1-4.pdf>

61) Electric Theory of Tornado. Protection from Tornado.

International Journal of Advanced Engineering Applications. ISSN: 2321-7723 (Online),

Volume 2, Issue 5 (October, 2013). http://fragrancejournals.com/?page_id=18 ,

<http://www.scribd.com/doc/153430778/Electric-Theory-of-Tornado-Protection-from-Tornado>

<https://archive.org/details/ArticleElectricTheoryOfTornado2ForStorage7913>

<http://vixra.org/abs/1307.0061> , <http://intellectualarchive.com/?link=find#detail> #1100.

<https://www.academia.edu/s/87c3793ac7>

62) Femtotechnology. AB-matter. Properties, Stability, Possibility Production and Applications.

EPEF, GBS, Con.FEMR, RAEEE (answer in Info 1 28 14)

63) Stability and Production Super-Strong AB Matter.

International Journal of Advanced Engineering Applications. 3-1-3, February 2014, pp.18-33.

<http://fragrancejournals.com/wp-content/uploads/2013/03/IJAEA-3-1-3.pdf>

The General Science Journal, November, 2013, #5244.

<http://www.gsjournal.net/Science-Journals/Research%20Papers->

[Quantum%20Theory%20%20Particle%20Physics/Download/5244](http://www.gsjournal.net/Science-Journals/Research%20Papers-Quantum%20Theory%20%20Particle%20Physics/Download/5244)

<http://www.scribd.com/doc/193675800/Stability-and-Production-Super-Strong-AB-matter> ,

<http://vixra.org/abs/1312.0017>. <https://archive.org/details/StabilityAndProductionSuper-strongAb-matter> ,

<http://www.IntellectualArchive.com/> Reference #1178

GSJ 1 8 14. https://www.academia.edu/14514987/Stability_and_Production_Super-Strong_AB-matter

64) Universe (Part 3). Relations between Charge, Time, Matter, Volume, Distance, and Energy.

The General Science Journal, #5245. IJAEA, GSJ,

<http://www.gsjournal.net/Science-Journals/Research%20Papers->

[Mechanics%20%20Electrodynamics/Download/5245](http://www.gsjournal.net/Science-Journals/Research%20Papers-Mechanics%20%20Electrodynamics/Download/5245) , <http://vixra.org/abs/1401.0075>,

<http://www.scribd.com/doc/197830994>, <http://www.IntellectualArchive.com/> Reference #1192 ,

<https://archive.org/details/universepart3.RelationsBetweenChargeTimeMatterVolumeDistance>

[http://www.IntellectualArchive.com/getfile.php?file=gwBJfgtbOeS&orig_file=Article Universe3 after Friedlander 01 09 14.doc](http://www.IntellectualArchive.com/getfile.php?file=gwBJfgtbOeS&orig_file=Article%20Universe3%20after%20Friedlander%2001%2009%2014.doc)

, https://www.academia.edu/14514621/Universe_Part_3_.Relations_between_Charge

65) Provisional patent application "Method and installation for cleaning the outer debris"

<http://vixra.org/abs/1403.0669> , <http://intellectualarchive.com/?link=find#result> #1242,

<http://www.scribd.com/doc/213887553> , <http://www.IntellectualArchive.com> #1388,

66) Electric Hypersonic Space Aircraft. <http://intellectualarchive.com>, #1288;

<http://vixra.org/abs/1407.0011> , 1 July 2014; <http://www.scribd.com/doc/232209230>,

<http://archive.org/details/ElectricHypersonicaircraft>, <http://gsjournal.net/Science-Journals->

[Papers/Author/1481/Alexander,%20Bolonkin](http://gsjournal.net/Science-Journals-Papers/Author/1481/Alexander,%20Bolonkin) .

67) Electrostatic Generator and Electric Transformer, <http://Vixra.org/abs/1407.0016>,

<http://GSJournal.net>, 2 July 2014; <http://intellectualarchive.com>, #1289;

68) Jet generator. <http://Vixra.org/abs/1407.0180> , <https://archive.org/details/>,

<http://gsjournal.net/Science-Journals-Papers/Author/1481/Alexander,%20Bolonkin>

- 69) **Method for Interstellar Flight.** <http://Vixra.org/abs/1408.0055>, <https://archive.org/details/>, <http://intellectualarchive.com>, #1312; <http://gsjournal.net/Science-Journals-Papers/Author/1481/Alexander,%20Bolonkin>
- 70) **Terroforming of planets and Space Objects.** <http://gsjournal.net/Science-Journals-Papers/Author/1481/Alexander,%20Bolonkin>, <http://Vixra.org/abs/1408.0239>, <http://archive.org/details/TerroformingOfPlanetsAndSpaceObjects>, <http://intellectualarchive.com>, #1323.
- 71) **Cumulative Thermonuclear AB-Reactor.** Vixra 7 8 15, <http://viXra.org/abs/1507.0053> <https://archive.org/details/ArticleCumulativeReactorFinalAfterCathAndOlga7716>, <http://intellectualarchive.com>, #1547, GSJ 7 9 15, GSJornal: [http://gsjournal.net/Science-Journals/%7B\\$cat_name%7D/View/6134](http://gsjournal.net/Science-Journals/%7B$cat_name%7D/View/6134), https://www.researchgate.net/profile/Alexander_Bolonkin/publications?sorting=recentlyAdded www.IntellectualArchive.com/getfile.php?file=QDvULGMdCBU&orig_file=Article_Cumulative_Reactor_Final_after_Cath_and_Olga_3_7_16.docx, https://www.academia.edu/14510693/Cumulative_Thermonuclear_AB-Reactor
Journal: *Energy, Sustainibility and Society*, Springer, v.6, issue 1, 2016. DOI: 10.1186/s13705-016-0074-z ESSO-D-15-00052.1
- 72) **Ultra-Cold Thermonuclear Synthesis: Criterion of Cold Fusion. 7 18 15.** <http://viXra.org/abs/1507.0158>, <https://archive.org/details/ArticleColdFusionAfterRichard71815>; www.IntellectualArchive.com, #1556; GSJornal: [http://gsjournal.net/Science-Journals/%7B\\$cat_name%7D/View/6140](http://gsjournal.net/Science-Journals/%7B$cat_name%7D/View/6140), <https://www.academia.edu>, https://www.researchgate.net/profile/Alexander_Bolonkin
- 73) **Impulse solutions in optimization problems 11 20 15**
<http://viXra.org/abs/1511.0189>; <https://www.academia.edu/s/3244c0c4f0?source=link> ???
<https://www.academia.edu/s/00538971c8>, <https://archive.org/details/ArticleImpulseSolutionsdoc200311115AfterJoseph>
GSJornal: <http://gsjournal.net/Science-Journals/Research%20Papers-Astrophysics/Download/6259> www.IntellectualArchive.com, #1625, ???, <https://www.researchgate.net> ???
- 74) **AB Preon Interaction Theory and Model of Universe,** <http://vixra.org/abs/1603.0210>, <https://www.academia.edu>, GSJ 3 30 16
<https://archive.org/details/ArticlePreonUniverseAfterJoseph22516>, www.IntellectualArchive.com #1698
- 75) **Cumulative and Impulse Mini Thermonuclear Reactors. 3 30 16**

Some Collections having Bolonkin's articles:

1) Macro-engineering Seawater in Unique Environments. Springer. 2010.

<http://www.springer.com/environment/aquatic+sciences/book/978-3-642-14778-4>

1. The Bering Strait Seawater Deflector (BSSD): Arctic Tundra Preservation Using an Immersed, Scalable and Removable Fiberglass Curtain. 741

Richard B. Cathcart, Alexander A. Bolonkin and Radu D. Rugescu

2. A Novel Macro-Engineering Approach to Seawater Desalination 675

Alexander A. Bolonkin, Shmuel Neumann and Joseph J. Friedlander

3. Macro-Engineering Lake Eyre with Imported Seawater 553

Viorel Badescu, Richard B. Cathcart, Marius Paulescu, Paul Gravila and Alexander A. Bolonkin

2) Handbook on Solar Wind: Effects, Dynamics and Interactions. NOVA. 2009.

https://www.novapublishers.com/catalog/product_info.php?products_id=8903

1. Electrostatic Solar Light - Wind Sail, pp. 353-365 (Alexander Bolonkin, C & R, Brooklyn, NY)
2. AB - Solar and Solar Wind Sail, pp. 367-378. (Alexander Bolonkin).
3. Electrostatic Magsail.p. 379-389 . (Alexander Bolonkin,).

3) Interstellar Medium: New Research. NOVA, 2011.

https://www.novapublishers.com/catalog/product_info.php?products_id=22357

- 1) Space Wing Electro AB-Ship. (Alexander Bolonkin, C&R, Brooklyn, New York, USA).

4) Propulsion: Types, Technology and Applications. NOVA. 2011.

https://www.novapublishers.com/catalog/product_info.php?products_id=24848

- 1) Review of New Ideas, Innovation of Non-Rocket Propulsion Systems for Space Launch and Flight - (Part 1) . (Alexander Bolonkin, C&R, Brooklyn, New York, USA)
- 2) Review of New Ideas, Innovations of Non-Rocket Propulsion Systems for Space Launch and Flight - (Part 2) . (Alexander Bolonkin, C&R, NJIT, Brooklyn, New York, USA)
- 3) Review of New Ideas, Innovations of Non-Rocket Propulsion Systems for Space Launch and Flight - (Part 3) . (Alexander Bolonkin, C&R, NJIT, Brooklyn, New York, USA)
- 4) Superconductivity Space Accelerator . (Alexander Bolonkin, C&R, Brooklyn, New York, USA)
- 5) Femtotechnology: AB-Needles - Fantastic Properties and Applications in Propulsion System and Aerospace . (A.A. Bolonkin, C&R, Brooklyn New York, USA)
- 6) Lower Current and Plasma Magnetic RailGun . (A. Bolonkin, C&R, Brooklyn, New York, USA)

5) Collection: **Mars**. Springer. 2009.

- Ch.10. New Solutions for Nuclear Energy and Flights on Mars, pp.287-330.
Ch.23. Artificial Environments on Mars. Pp.599-628.

6) Collection: **Macro-Engineering**. A Challenge for the Future. Springer. 2006.

- 1) Space Towers. Pp.121-150.
- 2) Cable Anti-Gravitator. Electrostatic Levitation and Artificial Gravity. Pp.175-214.

7) Collection: **Asteroids**. Perspective, Energy, and Material Resources, Springer, 2012. ISBN 078-3-642-39244-3

- 1) Change the Asteroid trajectory.
- 2) Shpad Metal Earth –Delivery Systems.
- 3) Artificial Gravitation on Asteroids.
- 4) Making Asteroids Habitable.
- 5) Using Asteroids for Launch/Landing. Change of Trajectory and Acceleration of Space Ships.

7) Collection: **Inner Solar System**. Prospective Energy and Material Resources. Springer. 2015. ISBN 978-3-319-19569-8 (eBook).

- 1) Estimation of the Fuel Consumption for Space Trip to Mercury and Venus.
- 2) Production of Energy for Venus by Electron Wind Generator.
- 3) Flight Apparatuses and Balloons in Venus Atmosphere.
- 4) Artificial Magnetic Field for Venus.
- 5) Economic Development of Mercury: A Comparison with Mars Colonization.
- 6) Terraforming Mercury and Venus.

8) Collection: **Asteroids**. Prospective Energy and Material Resources. Springer. 2014. ISBN 978-3-642-39244-3 (eBook).

- 1) Change the Asteroid Trajectory.
- 2) Shaped Metal Earth-Delivery Systems.

- 3) Artificial Gravitation on Asteroids.
- 4) Making Asteroids Habitable.
- 5) Using Asteroids for Launch/Landing, Change of Trajectory and Acceleration of Space Ships.

Journals:

- 7) Bolonkin A.A., ARTIFICIAL EXPLOSION OF SUN AND AB-CRITERION FOR SOLAR DETONATION, Journal "Scientific Israel-Technological Advantages", Israel, Vol.13, #1, 2011, pp.45-64.
http://sita-journal.com/files/2_Cur.Iss_no.1.pdf
- 8) Bolonkin A.A., Production water by exhaust gas of electric and heat plants. Journal "Scientific Israel-Technological Advantages". Vol.13, #1, 2011, pp.65-71.
- 9) Bolonkin A.A., A Cheap Inflatable High Altitude Gas Pipeline. *The Open Petroleum Engineering Journal*, 2009, 2, 24-35. <http://www.benthamscience.com/open/topej/articles/V002/24TOPEJ.pdf>
- 10) [Alexander A. Bolonkin](#), Aerial high altitude gas pipeline. Journal of Natural Gas Science and Engineering (July 2010), 2 (2-3), pg. 114-121
- 11) Bolonkin A.A., SUPPRESSION OF FOREST FIRE BY HELICOPTER WITHOUT WATER
Journal "Scientific Israel-Technological Advantages" (SITA), Vol.12, 4, 2010
- 12) [Protection of Environment from Damaged Nuclear Station and Transparent Inflatable Blanket for Cities—Protection from Radioactive Dust and Chemical, Biological Weapons.](#)
Alexander Bolonkin, Journal of Environmental Protection, Volume 02, Number 04 (June 2011). PP.327-341, Pub. Date: 2011-06-17,
[Abstract](#) | [References](#) Full Paper: [PDF](#) (Size:2150KB), PP.327-341, Pub. Date: 2011-06-17, Downloads: 322 DOI: 10.4236/jep.2011.24037
- 13) PROBLEMS OF SCIENCE RESEARCH AND TECHNICAL PROGRESS, by A.Bolonkin, S.Neumann. Scientific Israel - Technological Advantages Vol.14, No 1, 2012.
- 14) Journal "Smart Grid & Renewable Energy",
<http://www.scirp.org/journal/Home.aspx?IssueID=766>
[Open Access](#)
- 15) [Using of High Altitude Wind Energy](#)
Alexander Bolonkin
[Abstract](#) | [References](#) [Full-Text PDF](#), PP. 75-85, Pub. Date: May 19, 2011
DOI: 10.4236/sgre.2011.22010, **Downloads: 1336** [Google Scholar](#) [Open Access Library](#)
[Open Access](#)
- 16) [Production of Freshwater and Energy from Earth's Atmosphere](#)
Alexander Bolonkin
[Abstract](#) | [References](#) [Full-Text PDF](#), PP. 86-98, Pub. Date: May 19, 2011
DOI: 10.4236/sgre.2011.22011, **Downloads: 1014** [Google Scholar](#) [Open Access Library](#)
- 17) International Journal of Neural Networks and Applications (IJNNA), ISSN: 0974-6048
 1. *IJNNA*, 4(2) January-June 2012, pp. 1-11 • ISSN: 0974-6048, A.Bolonkin
NUCLEAR ENERGY AB-GENERATOR* AND ITS APPLICATION
IJNNA, 4(2) January-June 2012, pp. 13-19 • ISSN: 0974-6048
 2. **WING RELATIVISTIC AB-SHIP**
IJNNA, 4(2) January-June 2012, pp. 21-25 • ISSN: 0974-6048
 3. **LONG DISTANCE TRANSFER OF MECHANICAL ENERGY**
- 18) International Journal of Sustainable Engineering, [Volume 4, Issue 4](#), 2011
 - 1)A. Bolonkin, Trans-ocean wireless transfer of electricity from continent to continent.

- 2) Alexander Bolonkin, (2007) "Transfer of electricity in space", Aircraft Engineering and Aerospace Technology, Vol. 79 Iss: 3, pp.273 - 282
- 3) Alexander Bolonkin, (2006) "Electrostatic linear engine", Aircraft Engineering and Aerospace Technology, Vol. 78 Iss: 6, pp.502 - 508

=====

List of some publications by Bolonkin: <http://www.scribd.com/doc/63456356/>
<http://www.archive.org/details/ListOfSomeLastScientificPublicationsByAlexanderBolonkin>

19) JTT (Journal of Transportation Technology)

Protection of Environment from Damaged Nuclear Station and Transparent Inflatable Blanket for Cities—Protection from Radioactive Dust and Chemical, Biological Weapons

Alexander Bolonkin [Abstract](#) | [References](#) Full Paper: [PDF](#) (2150KB), , PP. 327-341, Pub. Date: June 17, 2011
 DOI: 10.4236/jep.2011.24037, **Downloads: 731** [Google Scholar](#) (2011)

http://scholar.google.com/scholar?start=40&q=Using+of+High+Altitude+Wind+Energy+author:Alexander+author:Bolonkin&hl=en&as_sdt=0,33 Note 48 Bolonkin's works 1-18-2013.

To: A. Bolonkin. Your paper "*Using of High Altitude Wind Energy*" was published in **Smart Grid and Renewable Energy**(SGRE), Vol.02 No.02, 2011 , Article has 1063 downloads and the citations based on the statistics from Google Scholar, Please access the following link: [Google Scholar](#).

Your paper published in **Smart Grid and Renewable Energy** (SGRE), Vol.02 No.02, 2011 , entitled "*Production of Freshwater and Energy from Earth's Atmosphere*" has 826 downloads and the citations based on the statistics from Google Scholar, Please access the following link: [Google Scholar](#).

Your paper published in **Journal of Environmental Protection** (JEP), Vol.02 No.04, 2011 , entitled "*Protection of Environment from Damaged Nuclear Station and Transparent Inflatable Blanket for Citiesa— || Protection from Radioactive Dust and Chemical, Biological Weapons*" has 738 downloads and the citations based on the statistics from Google Scholar, Please access the following link: [Google Scholar](#)

International Journal of Advanced Engineering Applications, Vol.1, Iss.3-4, 2013

4. "Hypersonic Launcher", Alexander Bolonkin, IJAEA-1-4-4
5. "Flight Wind Turbines", Alexander Bolonkin, IJAEA-1-4-5
10. "Remarks about Universe", Alexander Bolonkin, IJAEA-1-3-10

Same old books by A.Bolonkin

1. Болонкин А.А., Теория полета летающих моделей. Москва, ДОСААФ, 1962г. 326 стр..
 Book: Bolonkin A.A., Theory of flight models. Moscow, DOSAAF, 1962, 326 pgs. Russian.
<http://www.padabum.com/d.php?id=9976> , http://jmk-project.narod.ru/b/Bolonkin62_Teoria_fly_models/cont.htm

2. Bolonkin A.A., New methods of optimization and their applications. Moscow, MHTU named Bauman,1972, 220 pgs, (in Russian). Microfilm is in Central Russian State Library (Moscow) Ф 801-83/869-6

International Journal of Advanced Engineering Applications, Vol.1, Iss.3-4, 2013

1. "Hypersonic Launcher", Alexander Bolonkin, IJAEA-1-4-4
2. "Flight Wind Turbines", Alexander Bolonkin, IJAEA-1-4-5
3. "Remarks about Universe", Alexander Bolonkin, IJAEA-1-3-10

Article (45) by A.Bolonkin in <http://arxiv.org> (2004-2007) (Loading is free)

1. Magnetic Space Launcher. 2007. Abstract <http://arxiv.org/abs/0903.5008>
Paper: <http://arxiv.org/ftp/arxiv/papers/0903/0903.5008.pdf>
2. AB Blanket for Cities (for continual pleasant weather and protection from chemical, biological and radioactive weapons).
<http://arxiv.org/ftp/arxiv/papers/0902/0902.0656.pdf>
3. A Cheap Levitating Gas/Load Pipeline. <http://arxiv.org/ftp/arxiv/papers/0812/0812.0588.pdf>
4. Magnetic Propeller for Uniform Magnetic Field Levitation.
<http://arxiv.org/ftp/arxiv/papers/0807/0807.1948.pdf>
5. In Outer Space without a Space Suit? <http://arxiv.org/ftp/arxiv/papers/0806/0806.3792.pdf>
6. AB-Electronic Tubes and Quasi-Superconductivity at Room Temperature.
<http://arxiv.org/ftp/arxiv/papers/0805/0805.0230.pdf>
7. Floating Cities, Islands and States. <http://arxiv.org/ftp/arxiv/papers/0804/0804.0754.pdf>
8. Thermonuclear Reflect AB-Reactor. <http://arxiv.org/ftp/arxiv/papers/0803/0803.3776.pdf>
9. AB Space Engine. <http://arxiv.org/ftp/arxiv/papers/0803/0803.0089.pdf>
10. AB-Net Method of Protection from Projectiles (city, military base, battle-front, etc.)
<http://arxiv.org/ftp/arxiv/papers/0802/0802.1871.pdf>
11. Protection of Cities from Small Rockets, Missiles, Projectiles and Mortar Shells
<http://arxiv.org/ftp/arxiv/papers/0802/0802.0315.pdf>
12. Cheap Artificial AB-Mountains, Extraction of Water and Energy from Atmosphere and Change of Regional Climate. <http://arxiv.org/ftp/arxiv/papers/0801/0801.4820.pdf> .
13. Cheap Method for Shielding a City from Rocket and Nuclear Warhead Impacts.
<http://arxiv.org/ftp/arxiv/papers/0801/0801.1694.pdf>
14. AB Method of Irrigation without Water (Closed-loop water cycle).
<http://arxiv.org/ftp/arxiv/papers/0712/0712.3935.pdf>
15. Protection of New York City Urban Fabric With Low-Cost Textile Storm Surge Barriers.
<http://arxiv.org/ftp/arxiv/papers/0710/0710.0195.pdf>
16. AB Levitrons and their Applications to Earth's Motionless Satellites.
<http://arxiv.org/ftp/arxiv/papers/0708/0708.2489.pdf>
17. Inflatable Dome for Moon, Mars, Asteroids and Satellites
<http://arxiv.org/ftp/arxiv/papers/0707/0707.3990.pdf>
18. Global Sea Level Stabilization-Sand Dune Fixation: A Solar-powered Sahara Seawater Textile Pipeline. <http://arxiv.org/ftp/arxiv/papers/0707/0707.3234.pdf>
19. New AB-Thermonuclear Reactor for Aerospace.
<http://arxiv.org/ftp/arxiv/papers/0706/0706.2182.pdf>
20. Electrostatic Climber for Space Elevator and Launcher.
<http://arxiv.org/ftp/arxiv/papers/0705/0705.1943.pdf>

21. Optimal Electrostatic Space Tower (Mast, New Space Elevator).
<http://arxiv.org/ftp/arxiv/papers/0704/0704.3466.pdf>
22. Extraction of Freshwater and Energy from Atmosphere.
<http://arxiv.org/ftp/arxiv/papers/0704/0704.2571.pdf>
23. Passenger life-saving in a badly damaged aircraft scenario.
<http://arxiv.org/ftp/physics/papers/0703/0703259.pdf>
24. Lake Titicaca - Physics of an Inherited Hydropower Macroproject Proposal
<http://arxiv.org/ftp/physics/papers/0703/0703182.pdf>
25. AB Levitator and Electricity Storage. <http://arxiv.org/ftp/physics/papers/0703/0703013.pdf>
26. The Golden Gate Textile Barrier: Preserving California Bay of San Francisco from a Rising North Pacific Ocean. <http://arxiv.org/ftp/physics/papers/0702/0702030.pdf>
27. Design of Optimal Regulators. <http://arxiv.org/ftp/math/papers/0701/0701551.pdf>
28. Simplest AB-Thermonuclear Space Propulsion and Electric Generator .
<http://arxiv.org/ftp/physics/papers/0701/0701226.pdf>
29. Air Observe System. <http://arxiv.org/ftp/physics/papers/0701/0701115.pdf>
30. Utilization of Wind Energy at High Altitude
<http://arxiv.org/ftp/physics/papers/0701/0701114.pdf>
31. Ocean Terracing. <http://arxiv.org/ftp/physics/papers/0701/0701100.pdf>
32. The Java-Sumatra Aerial Mega-Tramway
<http://arxiv.org/ftp/physics/papers/0701/0701099.pdf>
33. Inflatable Evergreen Polar Zone Dome (EPZD) Settlements
<http://arxiv.org/ftp/physics/papers/0701/0701098.pdf>
34. Control of Regional and Global Weather
<http://arxiv.org/ftp/physics/papers/0701/0701097.pdf>
35. Micro -Thermonuclear AB-Reactors for Aerospace
<http://arxiv.org/ftp/physics/papers/0701/0701095.pdf>
36. A New Method of Atmospheric Reentry for Space Ships
<http://arxiv.org/ftp/physics/papers/0701/0701094.pdf>
37. Optimal Solid Space Tower. <http://arxiv.org/ftp/physics/papers/0701/0701093.pdf>
38. High Speed AB-Solar Sail. <http://arxiv.org/ftp/physics/papers/0701/0701073.pdf>
39. Electrostatic AB-Ramjet Space Propulsion <http://arxiv.org/ftp/physics/papers/0701/0701073.pdf>
40. A Low-Cost Natural Gas/Freshwater Aerial Pipeline
<http://arxiv.org/ftp/physics/papers/0701/0701061.pdf>
41. Theory of Space Magnetic Sail Some Common Mistakes and Electrostatic MagSail .
<http://arxiv.org/ftp/physics/papers/0701/0701060.pdf>

42. Cheap Textile Dam Protection of Seaport Cities against Hurricane Storm Surge Waves, Tsunamis, and Other Weather-Related Floods

<http://arxiv.org/ftp/physics/papers/0701/0701059.pdf>

43. Wireless Transfer of Electricity in Outer Space.

<http://arxiv.org/ftp/physics/papers/0701/0701058.pdf>

44. Beam Space Propulsion. <http://arxiv.org/ftp/physics/papers/0701/0701057.pdf>

45. Antarctica: A Southern Hemisphere Wind power Station?

Journal-ref: Bolonkin, A.A. (2004) Utilization of Wind Energy at High Altitude, Presented at International Energy Conversion Engineering Conference at Providence, RI, 16-19 August 2004, AIAA-2004-5705.

<http://arxiv.org/ftp/physics/papers/0701/0701055.pdf>

Bolonkin's reports (41) in AIAA (The American Institute of Aeronautics and Astronautics) Conferences (Loading of 1-st page is free). <http://AIAA.org>

1. Electrostatic Climber for Space Elevator and Launcher

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

AIAA-2007-5838

43rd AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Cincinnati, OH, July 8-11, 2007 .

http://pdf.aiaa.org/preview/CDReadyMJPC07_1492/PV2007_5838.pdf

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2. Electrostatic Linear Engine

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

AIAA-2006-5229

42nd AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Sacramento, California, July 9-12, 2006

http://pdf.aiaa.org/preview/CDReadyMJPC06_1178/PV2006_5229.pdf

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ADD TO CART »

3. Electrostatic Solar Wind Propulsion System

Alexander Bolonkin , Brooklyn, NY, UNITED STATES

AIAA-2005-3653

41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Tucson, Arizona, July 10-13, 2005

http://pdf.aiaa.org/preview/CDReadyMJPC2005_1177/PV2005_3653.pdf

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4. Thermonuclear Reflect AB-Reactor for Aerospace

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

AIAA-2008-5150

44th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Hartford, CT, July 21-23, 2008

http://pdf.aiaa.org/preview/CDReadyMJPC08_1874/PV2008_5150.pdf

SEE FIRST PAGE » ADD TO CART »

5. Beam Space Propulsion

Alexander Bolonkin C and R Company, Brooklyn, NY, UNITED STATES

AIAA-2006-7492

Space 2006, San Jose, California, Sep. 19-21, 2006

http://pdf.aiaa.org/preview/CDReadyMSPACE06_1393/PV2006_7492.pdf

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6. Micro-Thermonuclear AB-Reactors for Aerospace

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

AIAA-2006-8104

14th AIAA/AHI Space Planes and Hypersonic Systems and Technologies Conference, Canberra, Australia, Nov. 6-9, 2006

http://pdf.aiaa.org/preview/CDReadyMHYP06_1276/PV2006_8104.pdf

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7. Electrostatic Space Towers

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

AIAA-2007-6201

AIAA SPACE 2007 Conference and Exposition, Long Beach, California, Sep. 18-20, 2007

http://pdf.aiaa.org/preview/CDReadyMSPACE07_1808/PV2007_6201.pdf

SEE FIRST PAGE » ADD TO CART »

8. High Speed Catapult Aviation

Alexander Bolonkin CandR Company, Brooklyn, NY, UNITED STATES

AIAA-2005-6221

AIAA Atmospheric Flight Mechanics Conference and Exhibit, San Francisco, California, Aug. 15-18, 2005

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9. High Efficiency Transfer of Mechanical Energy

Alexander Bolonkin Eglin AFB, Brooklyn, NY, UNITED STATES

AIAA-2004-5660

2nd International Energy Conversion Engineering Conference, Providence, Rhode Island, Aug. 16-19, 2004

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10. AB-Space Propulsion

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

AIAA-2008-5151

44th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Hartford, CT, July 21-23, 2008

[SEE FIRST PAGE »](#)[ADD TO CART »](#)

11. Wireless Transfer of Electricity in Outer Space

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

AIAA-2007-590

45th AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada, Jan. 8-11, 2007

[SEE FIRST PAGE »](#)[ADD TO CART »](#)

12. Electrostatic Utilization of Asteroids for Space Flight

Alexander Bolonkin , Brooklyn, NY, UNITED STATES

AIAA-2005-4032

41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Tucson, Arizona, July 10-13, 2005

[SEE FIRST PAGE »](#)[ADD TO CART »](#)

13. Kinetic Anti-Gravitator

Alexander Bolonkin , Brooklyn, NY, UNITED STATES

AIAA-2005-4504

41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Tucson, Arizona, July 10-13, 2005

[SEE FIRST PAGE »](#)[ADD TO CART »](#)

14. Developing Conception of Faraday Motor. Space Trolley Buss

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES; Mark Krinker City University of New York, Bronx, NY, UNITED STATES

AIAA-2009-6664

AIAA SPACE 2009 Conference and Exposition, Pasadena, California, Sep. 14-17, 2009

[SEE FIRST PAGE »](#)[ADD TO CART »](#)

15. Utilization of Wind Energy at High Altitude

Alexander Bolonkin Eglin AFB, Brooklyn, NY, UNITED STATES

AIAA-2004-5705

2nd International Energy Conversion Engineering Conference, Providence, Rhode Island, Aug. 16-19, 2004

[SEE FIRST PAGE »](#) [ADD TO CART »](#)

16. **Magnetic Field-Based Conception of an Orbital Flight**

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES; Mark Krinker CUNY, Bronx, NY, UNITED STATES

AIAA-2009-5340

45th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Denver, Colorado, Aug. 2-5, 2009

[SEE FIRST PAGE »](#) [ADD TO CART »](#)

17. **Sling Rotary Space Launcher**

Alexander Bolonkin , Brooklyn, NY, UNITED STATES

AIAA-2005-4035

41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Tucson, Arizona, July 10-13, 2005

[SEE FIRST PAGE »](#) [ADD TO CART »](#)

18. **New High Speed AB-Solar Sail**

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

AIAA-2006-4806

42nd AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Sacramento, California, July 9-12, 2006

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19. **Magnetic Space Launcher**

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES; Mark Krinker City University of New York, Brooklyn, NY, UNITED STATES

AIAA-2009-5261

45th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Denver, Colorado, Aug. 2-5, 2009

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20. **Magnetic Propeller for Uniform Magnetic Field Levitation**

Mark Krinker CandR, Bronx, NY, UNITED STATES; Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

AIAA-2008-4610

44th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Hartford, CT, July 21-23, 2008

[SEE FIRST PAGE »](#) [ADD TO CART »](#)

21. Guided Solar Sail and Energy Generator

Alexander Bolonkin , Brooklyn, NY, UNITED STATES

AIAA-2005-3857

41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Tucson, Arizona, July 10-13, 2005

[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

22. Passenger Life-Saving in a Badly Damaged Aircraft Scenario

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

AIAA-2007-5844

43rd AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Cincinnati, OH, July 8-11, 2007

[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

23. Optimal Solid Space Tower

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

AIAA-2007-367

45th AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada, Jan. 8-11, 2007

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24. Radioisotope Space Sail and Electro-Generator

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AIAA-2005-4225

41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Tucson, Arizona, July 10-13, 2005

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25. Problems of Electrostatic Levitation and Artificial Gravity

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41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Tucson, Arizona, July 10-13, 2005

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26. A New Type of Thermonuclear Reactor for Aerospace

Alexander Bolonkin C and R Technologies, Brooklyn, NY, UNITED STATES

AIAA-2006-7275

Space 2006, San Jose, California, Sep. 19-21, 2006

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27. Air Cable Transport System

Alexander Bolonkin,
Journal of Aircraft 2003
0021-8669 vol.40 no.2 (265-269)
doi: 10.2514/2.3118

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28. Design of Optimal Regulators

Alexander Bolonkin Air Force Research Laboratory, Eglin AFB, FL, UNITED STATES; Robert Sierakowski Air Force Research Laboratory, Eglin AFB, FL, UNITED STATES
AIAA-2003-6638
2nd AIAA "Unmanned Unlimited" Conf. and Workshop and Exhibit, San Diego, California, Sep. 15-18, 2003

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29. Converting of Matter to Energy by AB-Generator and Photon Rocket

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES
AIAA-2009-5342
45th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Denver, Colorado, Aug. 2-5, 2009

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30. Geometry-Based Parametric Modeling For Single-Pursuer Multiple Evader Problems

A. Bolonkin, Eglin AF Base; R. Murphey, Eglin AF Base
Journal of Guidance, Control, and Dynamics 2005
0731-5090 vol.28 no.1 (145-149)
doi: 10.2514/1.4959

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31. Method for finding a global minimum

Bolonkin, A. A., USAF, Flight Dynamics Directorate, Wright-Patterson AFB, OH; Khot, N. S., USAF, Flight Dynamics Directorate, Wright-Patterson AFB, OH
AIAA-1994-4420

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32. Theory of Space Magnetic Sail Some Common Mistakes and Electrostatic MagSail

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES
AIAA-2006-8148
14th AIAA/AHI Space Planes and Hypersonic Systems and Technologies Conference, Canberra, Australia, Nov. 6-9, 2006

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33. Geometry-Based Parametric Modeling for Single Pursuer Multiple Evader Problems

Alexander Bolonkin Air Force Research Laboratory, Eglin AFB, FL, UNITED STATES; Robert Murphey Air Force Research Laboratory, Eglin AFB, FL, UNITED STATES
AIAA-2003-6611

2nd AIAA "Unmanned Unlimited" Conf. and Workshop and Exhibit, San Diego, California, Sep. 15-18, 2003

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34. A New Method of Atmospheric Reentry for Space Shuttles

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES
AIAA-2006-6985

11th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference, Portsmouth, Virginia, Sep. 6-8, 2006

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35. Theory of Space Magnetic Sail and Electrostatic MagSail

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AIAA-2007-499

45th AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada, Jan. 8-11, 2007

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36. Some Optimal Problems in Search, Observation, and Attack

Alexander Bolonkin Air Force Research Laboratory, Brooklyn, NY, UNITED STATES; James Cloutier U.S. Air Force Research Laboratory, Eglin AFB, FL, UNITED STATES
AIAA-2005-6232

AIAA Atmospheric Flight Mechanics Conference and Exhibit, San Francisco, California, Aug. 15-18, 2005

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37. Inflatable Dome for Moon, Mars, Asteroids, and Satellites

Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES
AIAA-2007-6262

AIAA SPACE 2007 Conference and Exposition, Long Beach, California, Sep. 18-20, 2007

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38. Hypersonic Gas-Rocket Launch System

Alexander Bolonkin NJIT, Fort Walton Beach, FL, UNITED STATES
AIAA-2002-3927

38th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Indianapolis, Indiana, July

7-10, 2002

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39. Overview of Advanced Concepts for Space Access

Andrew Ketsdever, U.S. Air Force Research Laboratory; Marcus Young, U.S. Air Force Research Laboratory; Jason Mossman, U.S. Air Force Research Laboratory; Anthony Pancotti, ERC, Inc.
Journal of Spacecraft and Rockets 2010
0022-4650 vol.47 no.2 (238-250)
doi: 10.2514/1.46148

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40. Search and Attack Strategies

Alexander Bolonkin U.S. Air Force Research Laboratory, Eglin AFB, FL, UNITED STATES;
James Cloutier U.S. Air Force Research Laboratory, Eglin AFB, FL, UNITED STATES
AIAA-2005-6403
AIAA Guidance, Navigation, and Control Conference and Exhibit, San Francisco, California, Aug.
15-18, 2005

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41. Search and Attack Strategies

Alexander Bolonkin Eglin AFB, Brooklyn, NY, UNITED STATES; James Cloutier Eglin AFB, Eglin,
FL, UNITED STATES
AIAA-2004-5424
AIAA Guidance, Navigation, and Control Conference and Exhibit, Providence, Rhode Island, Aug.
16-19, 2004

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JBIS (Journal of British Interplanetary Society). <http://www.bls-spaceflight.com>

1. A cable Space Transport System at the Earth's Poles to Support Exploration of the Moon, JBIS, Vol.59, No. 10, Oct. 2006, pp. 375-380.
2. Kinetic Space Towers and Launchers, Vol.57, No.1/2, Jan/Feb., 2004, pp.33-39.
3. Hypersonic Gas-Rocket Launcher of High Capacity, Vol.57, No.5/6, May/June 2004, pp. 162-172.
4. Light Multi-Reflex Engine, Vol.57, No. 9/10, Sep/Oct. 2004, pp. 353-359.
5. Multi-Reflex Propulsion Systems for space and Air Vehicles and Energy Transfer for Long Distance, Vol.57, No.11/12, Nov/Dec. 2004, pp. 379-390.
6. Earth Accelerator for Space Ships and Missiles, Vol.56, No.11/12, Nov/Dec. 2003, pp. 394-403.
7. Non-Rocket Transport System for Space Travel, Vol. 56, No.7/8, July/Aug., 2003, pp. 231-249.
8. Centrifugal Keeper for Space Stations and Satellites, Vol. 56, No.9/10, Sep/Oct., 2003, pp.314-327.
9. Optimal Inflatable Space Towers with 3 – 100 km Height, Vol.56, No. ¾, March/Apr., 2003, pp.87-96.

Journal AEAT (Aircraft Engineering and Aerospace Technology).
<http://www.emeraldinsight.com/journals.htm?issn=0002-2667>

1. Non-Rocket Space Launch and Flight

Type: Book.

Author(s): A. Bolonkin

Source: Aircraft Engineering and Aerospace Technology Volume: 78 Issue: 5 2006

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Author(s): Alexander Bolonkin

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Болонкин А.А., Жизнь. Наука. Будущее (Биографические очерки)

Превращение материи в ядерную энергию АБ-генератором и фотонные ракеты

LIFE. SCIENCE. FUTURE. Publish America, 2011. 306ps., 978-1-4512-7983-2.

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Keywords: [Aerospace](#); [aviation](#); [energy](#); [environment](#)

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 [LIFE. SCIENCE. FUTURE. \(Biography notes, researches and innovations\)](#) - Alexander **Bolonkin**

This is book about life, researches, ideas, innovations of Dr. Sci., professor Alexander **Bolonkin**.

He worked in Soviet aviation, rocket and space industries and lectured in main Moscow Universities in the former USSR. He earned many official awards from the Soviet Union officialdom. In 1972 professor **Bolonkin** was arrested by the notorious Soviet Secret Police (RGB) because he had been discovered reading forbidden political literature about freedom and democracy and had been monitored listening t...

Keywords: [Bolonkin](#); [Biography](#); [Science](#); [Innovation](#); [Future](#)

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 [Analysis of tubes filled with charged electron gas](#) - Stefan Karrmann

We show that tubes filled with electron gas, as presented by A. **Bolonkin**, are not possible with current materials. First, the pressure of the charges on the outer surface cancel almost all of the electrostatic pressure of the inner electrons. Second, due to the mutually repulsion most of the electrons are in the outmost shell of the tube and not individually free.

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 [Memoirs of Soviet Political Prisoner](#) - Alexander Bolonkin

Short Biography of Dr. Alexander **Bolonkin** A. **Bolonkin** was born in (Russia). When he was young, he had National and World records in aviation modelling and was awarded with gold and silver medals. He graduated with awards from Aviation Collage, Faculty of Aviation Engines, (B.S.)(USSR); Kazan Aviation Institute, Faculty of Aircraft Design, (M.S.); Kiev University, Faculty of Mathematics, (M.S.); Moscow Aviation Institute, Rocket Department, dissertation "Optimal Trajectories of Multistate Rockets..."

Keywords: [History of the communist USSR](#); [Concentration camp](#)

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 [Article Electric Theory Of Tornado 2 For Storage 7 9 13](#) - Alexander **Bolonkin**


Electric Theory of Tornado. Protection from Tornado. By Alexander **Bolonkin** C&R, USA, abolonkin@juno.com


Abstract The author develops a new theory of tornado stability. He show that it is the high electric voltage between clouds and ground surface which produces the intensive electron/ion flow which creates the air stream which sucks off (pumping) air from the ...


Keywords: [Tornado](#); [stability of tornado](#); [protection from tornado](#); [hurricane](#); [Bolonkin](#)

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-  [Live of Humanity in Outer Space without Space Suite](#) - Alexander **Bolonkin**
- The author proposes and investigates his old idea - a living human in space without the encumbrance of a complex space suit. Only in this condition can biological humanity seriously attempt to colonize space because all planets of Solar system (except the Earth) do not have suitable atmospheres. Aside from the issue of temperature, a suitable partial pressure of oxygen is lacking. In this case the main problem is how to satiate human blood with oxygen and delete carbonic acid gas (carbon dioxide...
- Keywords:** : [Space suit](#); [space colonization](#); [space civilization](#); [life on Moon](#); [Mars and other planets](#); [people existing in space](#)
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-  [Review of new ideas, innovation of non-rocket propulsion systems for Space Launch and Flight \(Part 1\)](#) - Alexander **Bolonkin**
- In the past years the author and other scientists have published a series of new methods which promise to revolutionize the space propulsion systems, space launching and flight. These include the cable propulsion system, circle propulsion system and space keeper, kinetic propulsion system, gas-tube propulsion system, sliding rotary method, asteroid employment, electromagnetic accelerator, Sun and magnetic sail, solar wind sail, radioisotope sail, electrostatic space sail, laser beam propulsion s...
- Keywords:** [Review](#); [Non-rocket propulsion](#); [non-rocket space launching](#); [non-rocket space flight](#); [cable launch system](#); [circle launch system](#); [space keeper](#); [kinetic propulsion system](#); [gas-tube launch system](#); [sliding rotary method](#); [asteroid employment](#); [electromagnetic accelerator](#); [Sun and](#)
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Full version. Added Chapter 13 which was missed early,

Keywords: [Non-Rocket Space Launch and Flight](#)

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 **[Underground Explosion Nuclear Energy](#)** - Alexander **Bolonkin**

Author offers the new method for obtaining very cheap electric energy, liquid fuel, thermal energy, fresh water and cheap nuclear fuel. He uses deuterium underground thermonuclear explosions. He shows the installation for getting of energy (creating the underground cavity by nuclear explosive) is on the order of a thousand times cheaper than surface steel boiler designs offered by Russian scientists and more safe because in case of any damage the radiation is in the deep underground cavity...

Keywords: [Energy](#); [cheap energy](#); [peaceful nuclear explosive](#); [warm energy](#); [fresh water](#); [liquid fuel](#); [cheap nuclear fuel](#); [theory of underground explosion](#); [artificial earthquake](#); [Bolonkin](#)

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 **[Review 2 of new ideas, innovations of non-rocket propulsion systems for Space Launch and Flight](#)** - Alexander **Bolonkin**

In the past years the author and other scientists have published a series of new methods which promise to revolutionize the space propulsion systems, space launching and flight. These include the electrostatic AB-ramjet space propulsion, beam space propulsion, MagSail, high speed AB-solar sail, transfer electricity in outer space, simplest AB-thermonuclear space propulsion, electrostatic linear engine and cable space launcher, AB-levitrons, electrostatic climber, AB-space propulsion, convertor a...

Keywords: [Non-rocket propulsion](#); [non-rocket space launching](#); [non-rocket space flight](#); [electrostatic AB-ramjet space propulsion](#); [beam space propulsion](#); [MagSail](#); [high speed AB-solar sail](#); [transfer electricity in outer space](#); [simplest AB-thermonuclear space propulsion](#); [electrostatic linear engine and launcher](#); [AB-levitrons](#); [electrostatic climber](#); [AB-space propulsion](#); [convertor any matter in nuclear energy](#); [femtotechnology](#); [wireless transfer of energy](#); [magnetic space launcher](#); [railgun](#); [superconductivity railgun](#)







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 **[Inexpensive Mini Thermonuclear Reactor](#)** - Alexander **Bolonkin**

This proposed design for a mini thermonuclear reactor uses a method based upon a series of important innovations. A cumulative explosion presses a capsule with nuclear fuel up to 100 thousands of atmospheres, the explosive electric generator heats the capsule/pellet up to 100 million degrees and a special capsule and a special cover which keeps these pressure and temperature in capsule up to 0.001 sec...

Keywords: [Thermonuclear mini bomb](#); [thermonuclear reactor](#); [nuclear energy](#); [nuclear engine](#); [nuclear space propulsion](#); [Bolonkin](#)

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-  [Stability and Production Super-Strong AB-matter](#) - Alexander **Bolonkin**
In works [1-3] author offered and considered possible super strong nuclear matter. In given work he continues to study the problem of a stability and production this matter. He shows the special artificial forms of nuclear AB-matter which make its stability and give the fantastic properties. For example, by the offered AB-needle you can pierce any body without any damage, support motionless satellite, reach the other planet, and research Earth's interior...
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-  [Electron Super Speed Hydro Propulsion](#) - Alexander **Bolonkin**
High speed submarines and in particular torpedoes need new propulsion systems which allow the submarine to reach high speeds by cheaper and more efficient methods. Author offers a new propulsion system using electrons for acceleration of the water and having a high efficiency. As this system does not use a water propeller, it does not have the cavitation limitations of conventional water propeller systems...
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-  [Electron Hydro Electric Generator](#) - Alexander **Bolonkin**
Author offers a new method of getting electric energy from moving water. A special injector injects electrons into water. Water stream picks up the electrons and moves them in the direction of stream which is against the direction of electric field. At some distance from injector a unique grid acquires the electrons, thus charging and producing electricity. This method does not require, as does other water energy devices, strong dams, water turbines, or electric generators...
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-  [NEW SELF-PROPELLED PENETRATION BOMB](#) - Alexander **Bolonkin**, Shmuel Newmann
Authors offer the new anti-bunker bombs which reach 80-150 m and more of the Earth depth. They can destroy armor protected underground bunkers. This bomb is named as "Self-propelled Bomb" because after conventional kinetic penetration, multiple cumulative charges create a narrow canal, then injects into this canal explosives which upon detonation push the bomb deeper into the Earth by special rocket explosions and reach a deep location...
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-  [Article Interstellar Flight 7 20 14](#) - Alexander **Bolonkin**
The basis of any Universe is energy. Energy may be positive or negative. Negative energy produces negative matter. Negative matter repels our (positive) matter. Using this effect the author offers a space propulsion system which allows reaching by space ship a speed close to light speed and to enable massive retrieval of extraterrestrial materials to construct works in space
Keywords: [Interstellar Flight](#); [Interstellar propulsion](#); [Negative energy](#); [negative matter](#)
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-  [Electron Hydro Electric Generator](#) - Alexander **Bolonkin**
Author offers a new method of getting electric energy from moving water. A special injector injects electrons into water. Water stream picks up the electrons and moves them in the direction of stream which is against the direction of electric field. At some distance from injector a unique grid acquires the electrons, thus charging and producing electricity. This method does not require, as does other water energy devices, strong dams, water turbines, or electric generators...
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 [Converting of any Matter to Nuclear Energy by AB-Generator and Aerospace](#) - Alexander **Bolonkin**

Abstract Author offers a new nuclear generator which allows to convert any matter to nuclear energy in accordance with the Einstein equation $E=mc^2$. The method is based upon tapping the energy potential of a Micro Black Hole (MBH) and the Hawking radiation created by this MBH. As is well-known, the vacuum continuously produces virtual pairs of particles and antiparticles, in particular, the photons and anti-photons...

Keywords: [Production of nuclear energy](#); [Micro Black Hole](#); [energy AB-Generator](#); [photon rocket](#); [Bolonkin](#)

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 [Non-Rocket Space Launches and Flights](#) - Alexander **Bolonkin**

Abstract At present, rockets are used for launches and flights into space. They have been intensively developed since World War II when the German engineer F. Von Braun designed the first long distance rocket FAU-2. In the subsequent 60 years liquid and solid rockets reached the peak of their development. Their main shortcomings are (1) very high cost of space launching \$20,000 â 50,000/kg; (2) large fuel consumption; (3) fuel storage problems because the oxidizer and fuel (for example; oxygen ...

Keywords: [Non-Rocket Space Launch](#); [Non-Rocket Space Flight](#)

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 [Using of High Altitude Wind Energy](#) - Alexander **Bolonkin**

Ground based, wind energy extraction systems have reached their maximum capability. The limitations of current designs are: wind instability, high cost of installations, and small power output of a single unit. The wind energy industry needs of revolutionary ideas to increase the capabilities of wind installations. This article suggests a revolutionary innovation which produces a dramatic increase in power per unit and is independent of prevailing weather and at a lower cost per unit of energy e...

Keywords: [wind energy](#); [cable energy transmission](#); [utilization of wind energy at high altitude](#); [air rotor](#); [windmills](#); [Bolonkin](#)

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 [Human Immortality and Electronic Civilization](#) - Alexander **Bolonkin**

Abstract Immortality is the most cherished dream and the biggest wish of any person. In book the author shows that the problem of immortality can be solved only by changing the biological human into an artificial form. Such an immortal person made of chips and super-solid material (the E-man, as was called in earlier author articles and book) will have incredible advantages in comparison to conventional people...

Keywords: [computer](#); [future of humanity](#); [21st Century](#); [non-biological civilization](#); [immortality](#); [AI](#)

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 [Protection of the Earth from the Asteroid](#) - Alexander **Bolonkin**

For Protection of the Earth from asteroid we need in methods for changing the asteroid trajectory and theory for an estimation or computation the impulse which produces these methods. Author develops some methods of this computation. There are: impact of the space apparatus to asteroid, explosion the conventional explosive having form of plate and ball on asteroid surface, explosion the small nuclear bomb on the asteroids surface, entry asteroid to Earth atmosphere, braking of asteroid by parach...

Keywords: [protection of the Earth from asteroids](#); [asteroid delivery to Earth](#); [impact to asteroid](#); [nuclear explosion](#); [atmospheric entry](#); [Space Ships](#); [thermal protection of asteroid and space](#)

[apparatus](#); [parachute braking of asteroid](#)

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 [Suppression of Forest Fire by Helicopter without Water](#) - Alexander **Bolonkin**

The natural occurrences of wildfires damage nature areas, produce the hundreds of millions of dollars in losses, and considerable pollution of environment. The author suggests a very efficient method of suppression of a forest fire without water. He offers a system of simple light plates or anchor suspended from any helicopter which directs the helicopter propeller airflow against the direction of a wildfire...

Keywords: [Wildfire](#); [suppression of wildfire](#); [suppression of forest fire by helicopter](#)

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 [Aerial Altitude Gas Pipeline](#) - Alexander **Bolonkin**

Design of new cheap aerial pipelines, a large flexible tube deployed at high altitude, for delivery of natural (fuel) gas over a long distance is delineated. The main component of the natural gas is methane, which has a specific weight less than air. The lift force of one cubic meter of methane equals approximately 0.5 kg. The lightweight film flexible pipeline can be located in air at high altitude and, as such, does not damage the environment...

Keywords: [gas pipeline](#); [aerial pipeline](#); [cheap pipeline](#); [altitude pipeline](#); [inflatable pipeline](#)

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 [Article Jet Electric Generator 7 3 14 \(Autosaved\) After Joseph](#) - Alexander **Bolonkin**

Author offers and develops the theory of a new simple cheap efficient electric (electron) generator. This generator can convert pressure or kinetic energy of any non-conductive flow (gas, liquid) into direct current (DC). The generator can convert the mechanical energy of any engine into high voltage DC. One can convert the wind and water energy into electricity without turbine. One can convert the rest energy of an internal combustion engine or turbojet engine in electricity and increase it...

Keywords: [Jet Electric Generator](#); [Electron generator](#); [AB generator](#); [Wind electric generator](#); [Water electric generator](#); [DC generator](#); [High voltage generator](#)

 [Transport System for Delivery Tourists At Altitude 140 km](#) - **Bolonkin**, Alexande

The author offers a new method and installation for flight in space. This method uses the centrifugal force of a rotating circular cable that provides a means for the launch of a payload into outer space, to keep the fixed space stations at high altitudes (up to 200 km). The method may also be useful for landing to space bodies, for launching of the space ships (crafts), and for moving and accelerating other artificial apparatuses...

Keywords: [SEMICONDUCTOR LASERS](#); [PHONONS](#); [ELECTRONS](#); [HOLES \(ELECTRON DEFICIENCIES\)](#); [HARTREE APPROXIMATION](#); [SCATTERING](#); [DIODES](#); [OPTOELECTRONIC DEVICES](#); [DIFFUSION](#); [PLASMAS \(PHYSICS\)](#); [BOLTZMANN TRANSPORT EQUATION](#); [DISTRIBUTION FUNCTIONS](#); [MAXWELL EQUATION](#); [OPTICAL POLARIZATION](#); [PARTIAL DIFFERENTIAL EQUATIONS](#)

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 [Non Rocket Space Launch And Flight \(v. 3\)](#) - Alexander **Bolonkin**

In the past years the author and other scientists have published a series of new methods which promise to revolutionize space launching and flight. These include the cable accelerator, circle launcher and space keeper, space elevator transport system, space towers, kinetic towers, the gas-tube method, sling rotary method, asteroid employment, electromagnetic accelerator, tether

system, Sun and magnetic sails, solar wind sail, radioisotope sail, electrostatic space sail, laser beam, kinetic anti-...

Keywords: [Non-Rocket Space Launch](#); [Non-Rocket Space Flight](#); [Space Launch and Flight without Rocket](#)

 **[REENTRY OF SPACE CRAFT TO EARTH ATMOSPHERE](#)** - Alexander **Bolonkin**

Currently reentry of USA Space Shuttles and Command Module of Lunar Ships burns a great deal of fuel to reduce reentry speed because the temperatures are too high for atmospheric braking by conventional fiber parachutes. Recently high-temperature fiber and whiskers have been produced which could be employed in a new control rectangle parachute to create the negative lift force required. Though it is not large, a light parachute decreases Shuttle speed from 8 km/s (Shuttle) and 11 km/s (Apollo Co...

Keywords: [Atmospheric reentry](#); [Space Shuttle](#); [thermal protection of space craft](#); [parachute braking](#)

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 **[Non-Rocket Earth-Moon Transport System](#)** - **Bolonkin**, Alexande

This paper proposes a new method and transportation system to travel to the Moon. This transportation system uses a mechanical energy transfer and requires only minimal energy so that it provides a 'Free Trip' into space. The method uses the rotary and kinetic energy of the Moon. This paper presents the theory and results of computations for the project provided Free Trips (without rockets and spend a big energy) to the Moon for six thousand people annually...

Keywords: [STOCHASTIC PROCESSES](#); [MODELS](#); [LAMINAR FLOW](#); [TURBULENT BOUNDARY LAYER](#); [BOUNDARY LAYER TRANSITION](#); [STABILITY](#); [HIGH REYNOLDS NUMBER](#); [ASYMPTOTIC SERIES](#)

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 **[Universe. Relations between Time, Matter, Volume, Distance, and Energy.](#)** - Alexander **Bolonkin**

Author has developed a theory which allows derivation of the unknown relations between main parameters in a given field of nature. He applied this theory for estimation of some values of our Universe and received both well-known and new unknown relations. Author offers possibly valid relations between time, matter, volume, distance, and energy. The net picture derived is that in the Universe exists ONLY one substance â ENERGY...

Keywords: [Universe](#); [Time](#); [Matter](#); [Volume](#); [Distance](#); [Energy](#)


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 **[Electronic Wind Generator](#)**


Author offers a new method of getting electric energy from wind. A special injector injects electrons into the atmosphere. Wind picks up the electrons and moves them in the direction of wind which is also against the direction of electric field. At some distance from injector a unique grid acquires the electrons, thus charging and producing electricity. This method does not require, as does other wind energy devices, strong columns, wind turbines, or electric generators...


Keywords: [energy](#); [utilization of wind energy](#); [electronic wind electric generator](#); [EABG](#); [Bolonkin](#)


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-  **[Wireless Transfer of Electricity from Continent to Continent](#)** - Alexander **Bolonkin**
 Author offers collections from his previous research of the revolutionary new ideas: wireless transferring electric energy in long distance from one continent to other continent through Earth ionosphere and storage the electric energy into ionosphere. Early he also offered the electronic tubes as the method of transportation of electricity into outer space and the electrostatic space 100 km towers for connection to Earth ionosphere...
Keywords: [transferring of electricity in space](#); [transfer of electricity to spaceship](#); [Moon](#); [Mars](#); [plasma MagSail](#); [electricity storage](#); [ionosphere transfer of electricity](#)
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-  **[Review 3 of new ideas, innovations of non-rocket propulsion systems for Space Launch and Flight](#)** - Alexaner **Bolonkin**
 In the past years the author and other scientists have published a series of new methods which promise to revolutionize the space technology. These include the Space Elevator, Men without the space suite into space, Artificial gravity, New method of atmospheric re-entry for space ship, Inflatable Dome for Moon, Mars, asteroids, Closed loop water cycle, Climber for Space Elevator, Cheap Protection from Nuclear Warhead, Wireless transfer of electricity throw outer Space, Artificial explosion of Su...
Keywords: [Space Elevator](#); [Men without the space suite into space](#); [Artificial gravity](#); [New method of atmospheric re-entry](#); [Inflatable Dome for space](#); [Closed loop water cycle](#); [Climber for Space Elevator](#); [Cheap protection from Nuclear Warhead](#); [Wireless transfer of electricity throw outer Space](#); [Artificial explosion of Sun](#)
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-  **[Optimal Pitch Thrust-Vector Angle and Benefits for all Flight Regimes](#)** - Gilyard, Glenn B.
 The NASA Dryden Flight Research Center is exploring the optimum thrust-vector angle on aircraft. Simple aerodynamic performance models for various phases of aircraft flight are developed and optimization equations and algorithms are presented in this report. Results of optimal angles of thrust vectors and associated benefits for various flight regimes of aircraft (takeoff, climb, cruise, descent, final approach, and landing) are given...
Keywords: [STRATOSPHERE](#); [ATTENUATION COEFFICIENTS](#); [CHLOROPHYLLS](#); [DEOXYRIBONUCLEIC ACID](#); [IRRADIANCE](#); [SPECTRAL BANDS](#); [SEA SURFACE TEMPERATURE](#); [REMOTE SENSING](#); [OZONE](#); [OZONOSPHERE](#); [OZONE DEPLETION](#); [ATMOSPHERIC COMPOSITION](#); [TOTAL OZONE MAPPING SPECTROMETER](#); [SOLAR RADIATION](#); [ULTRAVIOLET RADIATION](#); [RADIATIVE TRANSFER](#)
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-  **[Long Distance Bullets and Shells](#)** - Alexander **Bolonkin**
 This picks up on the author's early work of increasing range of the shells and bullets 2 to 5 times by including in its design small wings. The shell/bullet specially formed wings support the projectile in the air, does not allow it to fall in earth's surface as the kinetic energy the projectile is not spent fighting the forces of gravity and air resistance. This is an important innovation as it can be used in conventional rifles and gun with rifled barrel and rotary shell/bullet...
Keywords: [Wing projectile](#); [wing shell](#); [long distance shell](#); [long distance bullet](#)
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-  **[Femtotechnology: Design of the Strongest AB-Matter for Aerospace*](#)** - Alexander **Bolonkin**
 Abstract Aerospace, aviation particularly need, in any era, the strongest and most thermostable materials available, often at nearly any price. The Space Elevator, space ships (especially during atmospheric reentry), rocket combustion chambers, thermally challenged engine surfaces,
-

hypersonic aircraft materials better than any now available, with undreamed of performance as the reward if obtained. As it is shown in this research, the offered new material allows greatly to improve the all charact...

Keywords: [femtotechnology](#); [nuclear matter](#); [artificial AB-Matter](#); [superstrength matter](#); [superthermal resistance](#); [invisible matter](#); [super-protection from nuclear explosion and radiation](#); [Bolonkin](#)

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 **[Dome Shield: A Method to Contain Radioactive Dust from Damaged Nuclear Stations and to Protect Cities by Envelopment in a Transparent Inflatable Blanket \(Protection from radioactive dust as wells as chemical, biological weapons\)](#)** - Alexander **Bolonkin**

The author, in a series of previous articles, designed the AB Dome made of transparent thin film supported by a small additional air overpressure to cover a city or other important large installations or sub-regions. The AB Dome not only keeps the outside atmospheric conditions, such as inclement weather, away from the interior of the inflatable Dome, but can shield a city from radioactive dust, chemical, bacterial weapons and even partially from aviation and nuclear bombs...

Keywords: [Protection from damage nuclear station](#); [Dome for city](#); [blanket for city](#); [greenhouse](#); [regional control of weather](#); [protection of cities from chemical](#); [biological and radioactive weapons](#)


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 **[Universe, Human Immortality and Future Human Evaluation](#)** - Alexander **Bolonkin**

Immortality is the most cherished dream and the biggest wish of any person. In book the author shows that the problem of immortality can be solved only by changing the biological human into an artificial form. After natural death the man and his consciousness, mind may be converted in a new electronic form. Such an immortal person made of chips and super-solid material (the E-man, E-being as was called in earlier author articles and book) will have incredible advantages in comparison to conventi...

Keywords: [Universe](#); [immortality](#); [future of humanity](#); [computer](#); [21st Century](#); [non-biological civilization](#)

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 **[Converting Matter in Energy. ДѢЛѢНІЕ ЯДЕРНОГО МАТЕРІАЛУ НА МАЛЫЕ ЧАСТИЦЫ И ПОЛУЧЕНІЕ ЭНЕРГІИ ВЪ РУССІИ. ДѢЛѢНІЕ МАТЕРІАЛУ НА МАЛЫЕ ЧАСТИЦЫ И ПОЛУЧЕНІЕ ЭНЕРГІИ ВЪ РУССІИ. ДѢЛѢНІЕ МАТЕРІАЛУ НА МАЛЫЕ ЧАСТИЦЫ И ПОЛУЧЕНІЕ ЭНЕРГІИ ВЪ РУССІИ. ДѢЛѢНІЕ МАТЕРІАЛУ НА МАЛЫЕ ЧАСТИЦЫ И ПОЛУЧЕНІЕ ЭНЕРГІИ ВЪ РУССІИ.](#)** - A. **Bolonkin**

Author offers a new nuclear generator which allows to convert any matter to nuclear energy in accordance with the Einstein equation $E=mc^2$. The method is based upon tapping the energy potential of a Micro Black Hole (MBH) and the Hawking radiation created by this MBH. As is well-known, the vacuum continuously produces virtual pairs of particles and antiparticles, in particular, the photons and anti-photons...

Keywords: [Production of nuclear energy](#); [Micro Black Hole](#); [energy AB-Generator](#); [photon rocket](#)

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 **[Space Wing Electro Relativistic AB-Ship](#)** - Alexander **Bolonkin**

Author offers and develops the theory of a new class of space wing electro ship. A biplane wing and an electric field between the wings characterize this space ship. The interstellar and interplanetary mediums contain charged protons and other charged particles. The winged space ship can produce the lift, thrust and drag forces. The density of the space medium is small (100 - 105 charged particles/cm³) but the high ship speed allows creating enough force for maneuvers, turning, acceleration and ...

Keywords: [space wing electro apparatus](#); [AB-space ship](#); [flight into space medium](#); [non-rocket space flight](#); [ramjet space engine](#); [electrocraft](#)

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 **[Universe \(Part 3\). Relations between Charge, Time, Matter, Volume, Distance, and Energy.](#)** - Alexander **Bolonkin**

Abstract - In Universe (Part 1)[1] author has developed a theory which allows derivation of the unknown relations between the main parameters (energy, time, volume, matter) in the Universe. In given part 3 he added charge as main parameter in this theory. He finds also the quantum (minimal values) of energy, time, volume and matter and he applied this quantum for estimations of quantum volatility and the estimation of some values of our Universe and received both well-known and new unknown rel...

Keywords: [Key words: Universe](#); [time](#); [matter](#); [volume](#); [distance](#); [energy](#); [limits of specific density of energy](#); [matter](#); [pressure](#); [temperature](#); [intensity of fields](#); [collapse of space and time into point](#)

 **[Universe \(Part 2\): Rolling of Space \(Volume, Distance\), Time, and Matter into a Point](#)** - Alexander **Bolonkin**

Previously [1], this author developed a theory which allows derivation of the unknown relations between main parameters in a given field of nature. Using this theory, the outcomes of the derived formulas to estimate some values of our Universe uncovered both well-known and new unknown relations. That paper [1] which should be considered part 1 of this series offers possibly valid relations between time, matter, volume, distance, and energy...

Keywords: [: Universe](#); [time](#); [matter](#); [volume](#); [distance](#); [energy](#); [limits of specific density of energy](#); [matter](#); [pressure](#); [temperature](#); [intensity of fields](#); [collapse of space and time into point](#)

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 **[Energy Transfers from Airborne Wind Turbine:](#)** - Alexander **Bolonkin**

Abstract Ground based, wind energy extraction systems have reached their maximum capability. The limitations of current designs are wind instability and high cost of installations. The wind energy industry is in need of revolutionary ideas to increase the capabilities of wind systems. This article suggests a revolutionary innovation which produces a dramatic increase in power per unit at a lower cost per unit of energy extracted and is independent of prevailing weather...





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 **[Universe \(Part 3\). Relations between Charge, Time, Matter, Volume, Distance, and Energy](#)** - Alexander **Bolonkin**






In Universe (Part 1)[1] author has developed a theory which allows derivation of the unknown relations between the main parameters (energy, time, volume, matter) in the Universe. In given part 3 he added charge as main parameter in this theory. He finds also the quantum (minimal values) of energy, time, volume and matter and he applied these quantum for estimations of quantum volatility and the estimation of some values of our Universe and received both well-known and new unknown relations...

Keywords: [Key words: Universe](#); [time](#); [matter](#); [volume](#); [distance](#); [energy](#); [limits of specific density of energy](#); [matter](#); [pressure](#); [temperature](#); [intensity of fields](#); [collapse of space and time into point](#)

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-  [Converting of Matter to Nuclear Energy by AB-Generator and its Application](#) - A. **Bolonkin**
 Author offers a new nuclear generator which allows to convert any matter to nuclear energy in accordance with the Einstein equation $E=mc^2$. The method is based upon tapping the energy potential of a Micro Black Hole (MBH) and the Hawking radiation created by this MBH. As is well-known, the vacuum continuously produces virtual pairs of particles and antiparticles, in particular, the photons and anti-photons...
Keywords: [Production of nuclear energy](#); [Micro Black Hole](#); [energy AB-Generator](#); [photon rocket](#)
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-  [Femtotechnology: AB-Needles. Fantastic properties and Applications](#) - Alexander **Bolonkin**
 In the article "Femtotechnology: Nuclear AB-Matter with Fantastic Properties" [1] American Journal of Engineering and Applied Sciences. 2 (2), 2009, p.501-514. (<http://www.scribd.com/doc/24045154>), (<http://www.scipub.org/fulltext/ajeas/ajeas22501-514.pdf>), author offered and considered possible super strong nuclear matter. But many readers asked about the long-term stability of the proposed nuclear matter...
Keywords: [Femtotechnology](#); [FemtoTech](#); [AB-Matter](#); [AB-Needle](#); [applications AB-Matter](#); [stability AB-Matter](#)
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-  [Capture and Delivery of Asteroid to the Earth](#) - Alexander **Bolonkin**
 Authors offer the new method for deliver the asteroid to Earth. That method is cheaper in a lot of times than a conventional method. In our method for braking apparatus and asteroid are used the kinetic energy of apparatus. This energy is used also for charging the apparatus energy storage. The small control parachute allows multiple using the Earth atmosphere for the braking the asteroid without high heating, deliver the asteroid in given point and to avoid the asteroid impact to Earth...
Keywords: [Asteroid delivery to Earth](#); [Atmospheric reentry](#); [Space Ships](#); [thermal protection of asteroid and space apparatus](#); [parachute braking](#)
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-  [Inexpensive Cable Space Launcher of High Capability](#) - **Bolonkin**, Alexandre
 This paper proposes a new method and transportation system to fly into space, to the Moon, Mars, and other planets. This transportation system uses a mechanical energy transfer and requires only minimal energy so that it provides a 'Free Trip' into space. The method uses the rotary and kinetic energy of planets, asteroids, moons, satellites and other natural space bodies. computations for the following projects: 1...
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-  **[AB ELECTRONIC TUBES AND QUASI-SUPERCONDUCTIVITY AT ROOM TEMPERATURE*](#)** - Alexander **Bolonkin**
 Authors offer and research a new macro-engineering idea - filling tubes by electronic gases. Shown: If the insulating envelope (cover) of the tube is charged positively, the electrons within the tube are not attracted to covering. Tube (as a whole) remains a neutral (uncharged) body. The electron gas in the tube has very low density and very high conductivity, close to superconductivity. If we take the density (pressure) of electron gas as equal to atmospheric pressure, the thickness of insulato...
Keywords: [AB tubes](#); [electronic tubes](#); [superconductivity](#); [transmission energy](#)
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-  **[Employment of Asteroids for Movement Space Ship and Probes](#)** - **Bolonkin**, Alexandre
 At present, rockets are used to change the trajectory of space ships and probes. This method is very expensive and requires a lot of fuel, which limits the feasibility of space stations, interplanetary space ships, and probes. Sometimes space probes use the gravity field of a planet. However, there are only 9 planets in our solar system and they are separated by great distances. There are tens of millions of asteroids in outer space...
Keywords: [AEROSPACE ENVIRONMENTS](#); [DIELECTRICS](#); [INTEGRATED CIRCUITS](#); [OPERATIONAL AMPLIFIERS](#); [SEMICONDUCTOR DEVICES](#); [VOLTAGE CONVERTERS \(DC TO DC\)](#); [RESISTORS](#); [NASA PROGRAMS](#); [CRYOGENIC TEMPERATURE](#); [ELECTRICAL PROPERTIES](#); [ELECTRONIC EQUIPMENT TESTS](#); [LOW TEMPERATURE ENVIRONMENTS](#); [LOW TEMPERATURE TESTS](#); [THERMODYNAMIC PROPERTIES](#); [ANALOG TO DIGITAL CONVERTERS](#); [CAPACITORS](#)
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 Analytical benefits of variable-camber capability on subsonic transport aircraft are explored. Using aerodynamic performance models, including drag as a function of deflection angle for control surfaces of interest, optimal performance benefits of variable camber are calculated. Results demonstrate that if all wing trailing-edge surfaces are available for optimization, drag can be significantly reduced at most points within the flight envelope...
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 Theory and computations are provided for building inflatable space towers up to one hundred kilometers in height. These towers can be used for tourism, scientific observation of space, observation of the Earth's surface, weather and upper atmosphere, and for radio, television, and communication transmissions. These towers can also be used to launch space ships and Earth satellites. These projects are not expensive and do not require rockets...
Keywords: [IMAGE PROCESSING](#); [IMAGES](#); [VISUAL PERCEPTION](#); [STATISTICAL ANALYSIS](#); [OPTIMIZATION](#); [VISUAL FIELDS](#); [NONLINEARITY](#); [STANDARD DEVIATION](#); [LIGHT \(VISIBLE RADIATION\)](#); [DIGITAL DATA](#)
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-  **[New Concepts, Ideas and Innovations in Aerospace, Technology and Human Sciences](#)** - Alexander **Bolonkin**
 ABSTRACT In last years the author and other scientists have published a lot of new concepts, ideas, and innovations in aerospace, science, and technology. These ideas promise the revolutions in aerospace, technology and human life. In aerospace these include the new method of flight - AB levitation. This method allows humanity to flight as bird, riches a very high speeds and free flight to space; the electrostatic ramjet and beam space propulsions; electrostatic magsail; high speed solar sail; a...
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 ABSTRACT In recent years of the 21st Century the authors of this book and other scientists as well, have instigated and described many new macro-projects, USA and other countries patented concepts, speculative Macro-engineering ideas, and other general innovations in technology and environment change. These all hold the enticing promise for a true revolution in the lives of humans everywhere in the Solar System...
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-  **[Non-Rocket Missile Rope Launcher](#)** - **Bolonkin**, Alexande
 The method, installation, and estimation for delivering payload and missiles into outer space are presented. This method uses, in general, the engines and straight or closed-loop cables disposed on a planet surface. The installation consists of a space apparatus, power drive stations located along trajectory of the apparatus, the cables connected to the apparatus and to the power stations, a system for suspending the cable, and disconnected device...
Keywords: [FILM COOLING](#); [GAS TURBINES](#); [ENVIRONMENT EFFECTS](#); [LIQUID INJECTION](#); [EXHAUST EMISSION](#); [COMBUSTION CHEMISTRY](#); [STAGNATION TEMPERATURE](#); [OZONE](#); [TRACE ELEMENTS](#)
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-  **[Article Terraforming of Planets and Space Bodies](#)** - Alexander **Bolonkin**
 The current physics believes that vacuum can produce energy and Universes. The basis of any Universe is energy. Author assumes: energy may be positive or negative. Positive energy produces our positive matter, negative energy produces negative matter. Using this effect the author offers the formatting the current planets of Solar system, making them suitable for people, for humanity. That include: the production of Earth atmosphere, water, magnetic field in planets and natural satellites, ch...
Keywords: [Thermoforming planets](#); [Space Flight](#); [Space propulsion](#); [negative energy](#); [negative matter](#)
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-  **[Hypersonic Ground Electric AB Engine](#)** - Alexander **Bolonkin**
 At the present time, rocket launch systems, flight passenger-transport and ground passenger systems have reached their peak of development. In the last 30 years there has been no increase in speed or reductions in trip costs and space launch. The space launch and air and ground transportation industry needs revolutionary ideas, which allow a jump in speed and delivery capability, and a dramatic drop in space launch and trip price...
Keywords: [hypersonic ground engine](#); [space launcher](#); [air catapult transport](#); [kinetic aviation](#); [air kinetic system](#); [new high speed ground system](#)
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 [Air Catapult Transport](#) - Alexander **Bolonkin**

The current flight passenger-transport and cargo systems have reached the peak of their development. In the last 30 years there has been no increase in speed or reductions in trip costs. The transportation industry needs a revolutionary idea, which allows jumps in speed and delivery capability, and dramatic drops in trip price. The author offers a new idea in transportation in which trip (flight) time practically does not depend on distance, and vehicle load capability doubles and which has a dr...

Keywords: [air catapult transport](#); [air kinetic transport](#); [new passenger and cargo transport](#); [catapult aviation](#); [new space launch system](#); [new suspending high speed ground system](#); [cattran](#); [skimplane](#)

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 [Femtotechnology: Nuclear AB-Material with Fantastic Properties](#) - A. **Bolonkin**

At present the term "nanotechnology" is well known in its ideal form, the flawless and completely controlled design of conventional molecular matter from molecules or atoms. Such a power over nature would offer routine achievement of remarkable properties in conventional matter, and creation of metamaterials where the structure not the composition brings forth new powers of matter. But even this yet unachieved goal is not the end of material science possibilities...

Keywords: [femtotechnology](#); [nuclear matter](#); [artificial AB-Material](#); [superstrength material](#); [superthermal resistance](#); [invisible matter](#); [super-protection from nuclear explosion and radiation](#)

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In recent years of the 21st Century the author of this book and other scientists as well, have instigated and described many new ideas, researches, theories, macro-projects, USA and other countries patented concepts, speculative macro-engineering ideas, projects and other general innovations in technology and environment change. These all hold the enticing promise for a true revolution in the lives of humans everywhere in the Solar System...

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Abstract In recent years of the 21st Century the author of this book and other scientists as well, have instigated and described many new ideas, researches, theories, macro-projects, USA and other countries patented concepts, speculative macro-engineering ideas, projects and other general innovations in technology and environment change. These all hold the enticing promise for a true revolution in the lives of humans everywhere in the Solar System...

Keywords: [New technology](#); [revolutionary projects](#); [femtotechnology](#); [energy](#); [space launchers](#); [space flight](#)

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 [Non-Rocket Space Launch and Flight \(v.3\)](#) - Alexander **Bolonkin**

At present, rockets are used for launches and flights into space. They have been intensively developed since World War II when the German engineer F. Von Braun designed the first long distance rocket FAU-2. In the subsequent 60 years liquid and solid rockets reached the peak of their development. Their main shortcomings are (1) very high cost of space launching \$20,000 to 50,000/kg; (2) large fuel consumption; (3) fuel storage problems because the oxidizer and fuel (for

example; oxygen and hydro...

Keywords: [Non-Rocket Space Launch and Flight](#); [Space Launch](#); [Space Flight](#)

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 [Non-Rocket Space Launch and Flight](#) - Alexander **Bolonkin**

Abstract At present, rockets are used for launches and flights into space. They have been intensively developed since World War II when the German engineer F. Von Braun designed the first long distance rocket FAU-2. In the subsequent 60 years liquid and solid rockets reached the peak of their development. Their main shortcomings are (1) very high cost of space launching \$20,000 à 50,000/kg; (2) large fuel consumption; (3) fuel storage problems because the oxidizer and fuel (for example; oxygen ...

Keywords: [Non-rocket launch](#); [Non-rocket flight](#)


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 [Femtotechnologies and Revolutionary Projects](#) - Alexander **Bolonkin**

In recent years of the 21st Century the author of this book and other scientists as well, have instigated and described many new ideas, researches, theories, macro-projects, USA and other countries patented concepts, speculative macro-engineering ideas, projects and other general innovations in technology and environment change. These all hold the enticing promise for a true revolution in the lives of humans everywhere in the Solar System...

Keywords: [Femtotechnology](#); [Energy](#); [Aerospace](#); [Space Launch](#); [Space Flight](#)

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 [Artificial Explosion of Sun. AB-Criterion for Solar Detonation](#) - Alexander **Bolonkin** with Joseph Friedlander*

The Sun contains ~74% hydrogen by weight. The isotope hydrogen-1 (99.985% of hydrogen in nature) is a usable fuel for fusion thermonuclear reactions. This reaction runs slowly within the Sun because its temperature is low (relative to the needs of nuclear reactions). If we create higher temperature and density in a limited region of the solar interior, we may be able to produce self-supporting detonation thermonuclear reactions that spread to the full solar volume...

Keywords: [Artificial explosion of Sun](#); [annihilation of solar system](#); [criterion of nuclear detonation](#); [nuclear detonation wave](#); [detonate Sun](#); [artificial supernova](#)

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Keywords: [Bolonkin](#); [Nuclear Energy](#); [\$\mathbb{D}^{\circ} \mathbb{D}^{\frac{3}{4}} \mathbb{D} \gg \mathbb{D}^{\frac{3}{4}} \mathbb{D}^{\frac{1}{2}} \mathbb{D}^{\circ} \mathbb{D}, \mathbb{D}^{\frac{1}{2}}; \mathbb{D}^{\circ} \mathbb{D} \mu \mathbb{N} \in \mathbb{D}^{\frac{1}{2}} \mathbb{D}^{\circ} \mathbb{N} \bullet \mathbb{N} \bullet \mathbb{D}^{\frac{1}{2}} \mathbb{D} \mu \mathbb{N} \in \mathbb{D}^{\frac{3}{4}} \mathbb{D}, \mathbb{N} \bullet\$](#)

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Impulse solutions in optimization problems

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Air Hypersonic Electronically Propulsion

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reach high speeds by cheaper and more efficient methods. Author offers a new propulsion system using electrons for acceleration of the craft and having a high efficiency. As this system does not heat the air, it does not have the heating limitations of conventional air ramjet hypersonic engines. Offered engine can produce a thrust from a zero flight speed up to the desired space apparatus speed. It can work in any planet atmosphere (gas, liquid) and at very high altitude. The system can use apparatus surface for thrust and braking. For energy the system uses high voltage electricity which is not a problem if you have an appropriate electrostatic generator connected with any suitable engine.

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Ultra-Cold Thermonuclear Synthesis. Criterion of Cold Fusion

All scientists know well: for reaching the nucleus fusion, we need the gigantic temperature in hundreds millions degrees. Only in this case the kinetic energy of nucleus overcomes the repulsive electric force of nuc... more abstract All scientists know well: for reaching the nucleus fusion, we need the gigantic temperature in hundreds millions degrees. Only in this case the kinetic energy of nucleus overcomes the repulsive electric force of nucleus and connects two initial nucleuses to one new nucleus. In last sixty years, the scientists spent the tens billion dollars attempting to develop useful thermonuclear energy. But they cannot yet reach a stable thermonuclear reaction. They still are promising publically, after another 15 – 20 years, and more tens of billions of US dollars to finally design the expensive workable industrial installation, which possibly will produce electric energy more expensive than current heat, wind and hydro-electric stations can in 2015. Author uses the well-known physical laws and shows the other opposed cheap way: very low temperatures ($0.01 \div 10K$) and high pressure (some thousands or millions of atmospheres) allow reaching the same results: themonuclear fusion. He uses not kinetic energy of nucleus again repulsive force of nucleous as in conventional methods. He uses the blocking the repulsive forces of nucleos by electrons (sphere Debya), very low temperature and high pressure. In current time to reach these temperature and pressure are easely than hundreds millions degrees by magnetic or inercial confinement. New method the themonuclear fusion very cheap and allows to use other thermonuclear fuel which are cheaper and produce the aneutronic reaction. Author offers the new Criterion for Ultra Cold Termonuclear Fusion.

Nuclear Energy and Thermonuclear Fusion

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Ultra-Cold Thermonuclear Synthesis. Criterion of Cold Fusion

All scientists know well: for reaching the nucleus fusion, we need the gigantic temperature in hundreds millions degrees. Only in this case the kinetic energy of nucleus overcomes the repulsive electric force of nuc... more abstract All scientists know well: for reaching the nucleus fusion, we need the gigantic temperature in hundreds millions degrees. Only in this case the kinetic energy of nucleus overcomes the repulsive electric force of nucleus and connects two initial nucleuses to one new nucleus. In last sixty years, the scientists spent the tens billion dollars attempting to develop useful thermonuclear energy. But they cannot yet reach a stable thermonuclear reaction. They still are promising publically, after another 15 – 20 years, and more tens of billions of US dollars to finally design the expensive workable industrial installation, which possibly will produce electric energy more expensive than current heat, wind and hydro-electric stations can in 2015. Author uses the well-known physical laws and shows the other opposed cheap way: very low temperatures (0.01 ÷ 10K) and high pressure (some thousands or millions of atmospheres) allow reaching the same results: themonuclear fusion. He uses not kinetic energy of nucleus again repulsive force of nucleous as in conventional methods. He uses the blocking the repulsive forces of nucleos by electrons (sphere Debya), very low temperature and high pressure. In current time to reach these temperature and pressure are easely than hundreds millions degrees by magnetic or inercial confinement. New method the themonuclear fusion very cheap and allows to use other thermonuclear fuel which are cheaper and produce the aneutronic reaction. Author offers the new Criterion for Ultra Cold Termonuclear Fusion.

Nuclear Energy and Thermonuclear Fusion

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Новые методы оптимизации и их применение. Часть 2 (New methods of optimization and its application. Part 2 (in Russian))

Настоящая диссертация состоит из двух частей. Первая часть посвящена математическим основам новых методов оптимизации, вторая часть – примеры и приложения этих методов к ряду технических задач. В отличие от класси... more abstract Настоящая диссертация состоит из двух частей. Первая часть посвящена математическим основам новых методов оптимизации, вторая часть – примеры и приложения этих методов к ряду технических задач. В отличие от классической постановки задачи оптимизации: а) Дан ункционал. Требуется найти его абсолютную минималь. Эта задача в подавляющем большинстве случаев очень трудна и чаще всего неразрешима. Поэтому в первой части рассматриваются также иные постановки задач: б) Найти более «узкое» подмножество, содержащее абсолютную минималь. в) Найти подмножество решений лучших, чем данное. г) Найти оценки снизу данного функционала. В настоящее время большинство исследователей, работающих в области оптимизации, заняты решением задачи в традиционной (классической) постановке – отысканием точной минимали (задача а). Инженера же, как правило, в реальных задачах интересует подмножество квазиоптимальных решений, выбирая из которого, он заранее уверен в получении функционала не хуже заданной величины (задача в) и оценки снизу, показывающих насколько далек он от точного оптимального оптимального решения (задача г). К тому же обычно у него есть много дополнительных соображений, которые нельзя учесть в математической модели или которые бы ее сильно усложнили. Постановка задачи в форме в дает ему определенную свободу выбора. Задача г имеет и самостоятельный интерес. Если есть оценка снизу, близкая к точной нижней грани функционала, то задачу оптимизации часто можно решить подбором квазиоптимального решения. Задача же б может существенно облекчить решение любой из перечисленных задач, так как сужает множество, на котором следует искать решение. Перечисленные неклассические постановки задач потребовали новых методов решения, отличных от известных методов вариационного исчисления, принципа максимума или динамического программирования. Оказалось, что новые методы обладают значительной общностью и при попытке решить с их помощью одну из перечисленных задач можно в качестве побочного продукта получить решение другой задачи. Это может принести пользу. Так если получена хорошая оценка снизу, то, сравнивая с ней разные инженерные решения, часто удается получить решение, очень мало отличающееся от оптимального. Излагаемый в первой части материал не сложен, но он опирается на ряд элементарных понятий и символику из теории множеств. В диссертации принята двойная нумерация формул, теорем и рисунков. Первая цифра обозначает номер параграфа, вторая – номер формулы или теоремы в этом параграфе. Первая цифра в рисунках обозначает номер главы, вторая – номер рисунка в данной главе. Краткое изложение (Автореферат диссертации, 28 стр.) есть в интрнете <http://viXra.org/abs/1503.0081>, <http://www.twirpx.com>, Некоторые главы изложены более подробно в

специальном учебном пособии «Новые методы оптимизации и их применение», Москва, Издательство МВТУ им.Баумана, 1972г., 220 стр. (См. РГБ, Российская Государственная Библиотека, Ф-801-83/869-6). <http://vixra.org/abs/1504.0011> v4. , <https://www.academia.edu/11054777/> Пособие содержит также большое число примеров, упражнений и задач.

Optimization (Mathematics)

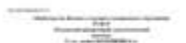
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Новые методы оптимизации и их применение. Часть 1. (New methods of optimization and its application. Part 1 (in Russian))

Настоящая диссертация состоит из двух частей. Первая часть посвящена математическим основам новых методов оптимизации, вторая часть – примеры и приложения этих методов к ряду технических задач. В отличие от класси... more abstract Настоящая диссертация состоит из двух частей. Первая часть посвящена математическим основам новых методов оптимизации, вторая часть – примеры и приложения этих методов к ряду технических задач. В отличие от классической постановки задачи оптимизации: а) Дан ункционал. Требуется найти его абсолютную минималь. Эта задача в подавляющем большинстве случаев очень трудна и чаще всего неразрешима. Поэтому в первой части рассматриваются также иные постановки задач: б) Найти более «узкое» подмножество, содержащее абсолютную минималь. в) Найти подмножество решений лучших, чем данное. г) Найти оценки снизу данного функционала. В настоящее время большинство исследователей, работающих в области оптимизации, заняты решением задачи в традиционной (классической) постановке – отысканием точной минимали (задача а). Инженера же, как правило, в реальных задачах интересует подмножество квазиоптимальных решений, выбирая из которого, он заранее уверен в получении функционала не хуже заданной величины (задача в) и оценки снизу, показывающих насколько далек он от точного оптимального оптимального решения (задача г). К тому же обычно у него есть много дополнительных соображений, которые нельзя учесть в математической модели или которые бы ее сильно усложнили. Постановка задачи в форме в дает ему определенную свободу выбора. Задача г имеет и самостоятельный интерес. Если есть оценка снизу, близкая к точной нижней грани функционала, то задачу оптимизации часто можно решить подбором квазиоптимального решения. Задача же б может

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Optimization

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Man in Outer Space without Space Suite

The author proposes and investigates his old idea - a living human in space without the encumbrance of a complex space suit. Only in this condition can biological humanity seriously attempt to colonize space because... more abstract The author proposes and investigates his old idea - a living human in space without the encumbrance of a complex space suit. Only in this condition can biological humanity seriously attempt to colonize space because all planets of Solar system (except the Earth) do not have suitable atmospheres. Aside from the issue of temperature, a suitable partial pressure of oxygen is lacking. In this case the main problem is how to satiate human blood with oxygen and delete carbonic acid gas (carbon dioxide). The proposed system

would enable a person to function in outer space without a space suit and, for a long time, without food. That is useful also in the Earth for sustaining working men in an otherwise deadly atmosphere laden with lethal particulates (in case of nuclear, chemical or biological war), in underground confined spaces without fresh air, under water or a top high mountains above a height that can sustain respiration. Key words: Space suit, space colonization, space civilization, life on Moon, Mars and other planets, people existing in space.

Medicine

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Electric Theory of Tornado. Protection from Tornado.

The author develops a new theory of tornado stability. He show that it is the high electric voltage between clouds and ground surface which produces the intensive electron/ion flow which creates the air stream which... more abstract The author develops a new theory of tornado stability. He show that it is the high electric voltage between clouds and ground surface which produces the intensive electron/ion flow which creates the air stream which sucks off (pumping) air from the inside tornado channel and makes the tornado stable. If we want to destroy tornado stability we must decrease the electric intensity into the tornado channel. The simplest method is using conductive wire to connect the top funnel of tornado with ground. For this method, the top end of wire must have a large conductive area (air balloon or wing dirigible with conductive layer), the lower end of wire must have good contact with wet ground. The row from these conductive wires having step 150 – 200 m and altitude 200 – 300 m can protect villages, towns and important installations such as the nuclear electric station and military bases from tornados. -----

----- Keywords: Tornado, stability of tornado, protection from tornado, hurricane, Bolonkin.

Weather

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Converting of Matter to Nuclear Energy

Author offers a new nuclear generator which allows to convert any matter to nuclear energy in accordance with the Einstein equation $E=mc^2$. The method is based upon tapping the energy potential of a Micro Black Hole (M... more abstract

Author offers a new nuclear generator which allows to convert any matter to nuclear energy in accordance with the Einstein equation $E=mc^2$. The method is based upon tapping the energy potential of a Micro Black Hole (MBH) and the Hawking radiation created by this MBH. As is well-known, the vacuum continuously produces virtual pairs of particles and antiparticles, in particular, the photons and anti-photons. The MBH event horizon allows separating them. Anti-photons can be moved to the MBH and be annihilated; decreasing the mass of the MBH, the resulting photons leave the MBH neighborhood as Hawking radiation. The offered nuclear generator (named by author as AB-Generator) utilizes the Hawking radiation and injects the matter into MBH and keeps MBH in a stable state with near-constant mass. The AB-Generator can not only produce gigantic energy outputs but should be hundreds of times cheaper than a conventional electric generation processes. The AB-Generator can be used in aerospace as a photon rocket or as a power source for numerous space vehicles. Many scientists expect the Large Hadron Collider at CERN will produce one MBH every second and the technology to capture them may be used for the AB-Generator. Key words: Production of nuclear energy, Micro Black Hole, energy AB-Generator, photon rocket. * Presented as Paper AIAA-2009-5342 in 45 Joint Propulsion Conferences, 2–5 August, 2009, Denver, CO, USA. Introduction Black hole. In general relativity, a black hole is a region of space in which the gravitational

Nuclear Energy

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FEMTOTECHNOLOGY: THE STRONGEST AB-MATTER FOR AEROSPACE

Aerospace, aviation particularly need, in any era, the strongest and most thermostable materials available, often at nearly any price. The Space Elevator, space ships (especially during atmospheric reentry), rocket... more abstract Aerospace, aviation particularly need, in any era, the strongest and most thermostable materials available, often at nearly any price. The Space Elevator, space ships (especially during atmospheric reentry), rocket combustion chambers, thermally challenged engine surfaces, hypersonic aircraft materials better than any now available, with undreamed of performance as the reward if obtained. As it is shown in this research, the offered new material allows greatly to improve the all characteristics of space ships, rockets, engines and aircraft and design new types space, propulsion, aviation systems. At present the term 'nanotechnology' is well known – in its' ideal form, the flawless and completely controlled design of conventional molecular matter from molecules or atoms. But even this yet unachieved goal is not the end of material science possibilities. The author herein offers the idea of design of new forms of nuclear matter from nucleons (neutrons, protons), electrons, and other nuclear particles. He shows this new 'AB-Matter' has extraordinary properties (for example, tensile strength, stiffness, hardness, critical temperature, superconductivity, supertransparency, zero friction, etc.), which are up to millions of times better than corresponding properties of conventional molecular matter. He shows concepts of design for space ships, rockets, aircraft, sea ships, transportation, thermonuclear reactors, constructions, and so on from nuclear matter. These vehicles will have unbelievable possibilities (e.g., invisibility, ghost-like penetration through any walls and armour, protection from nuclear bomb explosions and any radiation flux, etc.) Nanotechnology, in near term prospect, operates with objects (molecules and atoms) having the size in nanometer (10⁻⁹ m). The author here outlines perhaps more distant operations with objects (nuclei) having size in the femtometer range, (10⁻¹⁵ m, millions of times less smaller than the nanometer scale). The name of this new technology is femtotechnology. Key words: femtotechnology, nuclear matter, artificial AB-Matter, superstrength matter, superthermal resistance, invisible matter, super-protection from nuclear explosion and radiation. * Presented as paper AIAA-2009-4620 to 45 Joint Propulsion Conference, 2-5 August, 2009, Denver CO, USA.

Femtotechnoly. New technology.

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Stability and Production Super-Strong AB-matter

In works [1-3] author offered and considered possible super strong nuclear matter. In given work he continues to study the problem of a stability and production this matter. He shows the special artificial forms of nuclear AB-matter which make its stability and give the fantastic properties. For example, by the offered AB-needle you can pierce any body without any damage, support motionless satellite, reach the other planet, and research Earth's interior. These forms of nuclear matter are not in nature now, and nanotubes are also not in nature. The AB-matter is also not natural now, but researching and investigating their possibility, properties, stability and production are necessary for creating them. Keywords- Femtotechnology; FemtoTech; AB-matter; AB-needle; Stability AB-matter; Production of AB-matter;

Super strong matter and Nuclear matter

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Universe (Part 3). Relations between Charge, Time,

In Universe (Part 1)[1] author has developed a theory which allows derivation of the unknown relations between the main parameters (energy, time, volume, matter) in the Universe. In given part 3 he added charge as m... more abstract In Universe (Part 1)[1] author has developed a theory which allows derivation of the

unknown relations between the main parameters (energy, time, volume, matter) in the Universe. In given part 3 he added charge as main parameter in this theory. He finds also the quantum (minimal values) of energy, time, volume and matter and he applied these quantum for estimations of quantum volatility and the estimation of some values of our Universe and received both well-known and new unknown relations. Author offers possibly valid relations between charge, time, matter, volume, distance, and energy. The net picture derived is that in the Universe exists ONLY one substance – ENERGY. Charge, time, matter, volume, fields are evidence of this energy and they can be transformed one to other. Author gives the equations which allow to calculate these transformation like the famous formula $E = mc^2$. Some assumptions about the structure of the Universe follow from these relations. Most offered equations give results close to approximately known data of Universe, the others allow checking up by experiment. Key words: Universe, time, matter, volume, distance, energy; limits of specific density of energy, matter, pressure, temperature, intensity of fields; collapse of space and time into point.

Universe

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Cumulative Thermonuclear AB-Reactor

In last sixty years, the scientists spent the tens billion dollars attempting to develop useful thermonuclear energy. But they cannot yet reach a stable thermonuclear reaction. They still are promising publically, ... more abstract In last sixty years, the scientists spent the tens billion dollars attempting to develop useful thermonuclear energy. But they cannot yet reach a stable thermonuclear reaction. They still are promising publically, after another 15 – 20 years, and more tens of billions of US dollars to finally design the expensive workable industrial installation, which possibly will produce electric energy more expensive than current heat, wind and hydro-electric stations can in 2015. The author offers a new, small cheap cumulative inertial thermonuclear reactor, which increases the pressure and temperature of its nuclear fuel by thousands of times, reaches the required ignition stage and, ultimately, full constant contained thermonuclear reaction. Cumulative A-B Reactor contains several innovations to achieve its product Chief among them is using moving explosives (rocket thrust), which allows to accelerate the special piston to very high speed (more 30 km/s) which (as shown by integral computations) compresses the fuel capsule a million times and heats up the millions degrees of

temperature. ----- Keywords: Micro-thermonuclear reactor, Cumulative AB-thermonuclear reactor, transportation thermonuclear reactor, aerospace thermonuclear engine, nuclei fuse.

Nuclear Physics

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Ultra-Cold Thermonuclear Synthesis: Criterion of Cold Fusion

All scientists know well: to achieve nucleus fusion, a temperature of hundreds of millions of degrees is required. Only in this case, the kinetic energy of nucleus overcomes the repulsive electric force of nucleus a... more abstract All scientists know well: to achieve nucleus fusion, a temperature of hundreds of millions of degrees is required. Only in this case, the kinetic energy of nucleus overcomes the repulsive electric force of nucleus and connects two initial nucleuses into a single nucleus. In the last sixty years, scientists have spent tens of billion US dollars attempting to develop useful thermonuclear fusion energy. Yet, today they still cannot reach a stable long-period thermonuclear reaction. They still are promising publically, after many years of effort, and additional tens of billions of US dollars to finally design the expensive but ultimately workable industrial installation, which possibly will produce electric energy more expensive than current heat, wind and hydro-electric stations can in 2015. Author, instead, uses well-known physical laws and shows the other and cheaper way: very low temperatures ($0.01 \div 10\text{K}$) and high-pressure (some thousands or millions of atmospheres) allows reaching the same results: thermonuclear fusion. He does not use kinetic energy of nucleus again repulsive force of nucleus, as in the long-touted conventional plasma confinement method. Instead, he uses the blocking the repulsive forces of nucleus by electrons (sphere Debya), very low-temperature and high-pressure. In current time to reach these temperature and pressure are easily than hundreds millions degrees by magnetic or inertial confinement. New method for thermonuclear fusion is relatively cheap and allows use of other thermonuclear fuel which are less expensive and which produce theaneutronic reaction. Author offers new criterion for Ultra Cold Thermonuclear Fusion.

Nuclear Physics and Thermonuclear Fusion

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Optimal Trajectories of Air and Space Vehicles

The author has developed a theory on optimal trajectories for air vehicles with variable wing areas and with conventional wings. He applied a new theory of singular optimal solutions and obtained in many cases the optimal flight. The wing drag of a variable area wing does not depend on air speed and air density. At first glance the results may seem strange, however, this is the case and this chapter will show how the new theory may be used. The equations that follow enable computations of the optimal control and optimal trajectories of subsonic aircraft with pistons, jets, and rocket engines, supersonic aircraft, winged bombs with and without engines, hypersonic warheads, and missiles with wings. The main idea of the research is to use the vehicle's kinetic energy to increase the range of missiles and projectiles. The author shows that the range of a ballistic warhead can be increased 3–4 times if an optimal wing is added to it, especially a wing with variable area. If we do not need increased range, the head mass of rockets can be increased. The range of large gun shells can also be increased 3–9 times. The range of an aircraft may be improved by 3–15% or more. The results can be used for the design of aircraft, space ship, head of rockets, missiles, flying apparatus and shells for large guns.

Optimization techniques

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Algae Domes: Expedient Method Augmenting Biofuel Supply

By Alexander Bolonkin and Zarek Newman

Pioneering the development of dome technology, the authors have devised an algae dome where the algae are grown between the walls of two transparent domes, one inside the other, with only 10 cm between the outer and i... more abstractPioneering the development of dome technology, the authors have devised an algae dome where the algae are grown between the walls of two transparent domes, one inside the other, with only 10 cm between the outer and inner walls. These domes are inflatable and are held up only by air pressure. Circulating water in the 10 cm between the outer and inner dome is the breeding ground for the algae. It has the advantage of the bioreactors as it is insulated from outside contaminants but is inexpensive and has more area exposed than the breeding pond. Further, inside the dome, the floor space of the dome can be a shielded pond increasing the algae crop yield or can be used as a greenhouse.

Algae

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Micro-Thermonuclear Plasma Tunneling by Rock Melting

Standard drilling has limits as at some depth the pressures and temperatures force the drilled opening tight when the drill is lifted. This paper proposes a reliable and rapid method of penetration of rock masses by me... more abstractStandard drilling has limits as at some depth the pressures and temperatures force the drilled opening

tight when the drill is lifted. This paper proposes a reliable and rapid method of penetration of rock masses by melting all or part of the rock face and penetrate therein, cool the resulting glassy tube to be a stabilized liner. The methods proposed to heat the tip of the melting element include heat generated by a micro-thermonuclear reaction. High rates of advance are sustainable because only heat and cooling water must be advanced to the tunnel head. The equipment is simple and without need for unduly high pressure lithofracturing, and the equipment may be regularly removed and switched out to avoid time and personnel-intensive breakdowns in place. This method can achieve depths heretofore unreachable to access deep gas, oil, or to create an airtight and waterproof shaft for geothermic energy.

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Новые методы оптимизации и их применение. Автореферат докторской диссертации. New methods of Optimization

Болонкин А.А., Новые Методы оптимизации и их применение. Автореферат диссертации на соискание ученой степени доктора технических наук. Москва, Ленинградский политехнический институт. 1971г., 28 стр. Bolonkin A.A., New... more abstract
 Болонкин А.А., Новые Методы оптимизации и их применение. Автореферат диссертации на соискание ученой степени доктора технических наук. Москва, Ленинградский политехнический институт. 1971г., 28 стр. Bolonkin A.A., New methods of optimization and their application. Abstract of post doctoral dissertation. Moscow, Leningrad, Polytechnic Institute, 1971, 28 pgs. (in Russian)

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Non-Rocket Space Launch and Flight (draft v3)

At present, rockets are used for launches and flights into space. They have been intensively developed since World War II when the German engineer F. Von Braun designed the first long distance rocket FAU-2. In the s... more abstract At present, rockets are used for launches and flights into space. They have been intensively developed since World War II when the German engineer F. Von Braun designed the first long distance rocket FAU-2. In the subsequent 60 years liquid and solid rockets reached the peak of their development. Their main shortcomings are (1) very high cost of space launching \$20,000 – 50,000/kg; (2) large fuel consumption; (3) fuel storage problems because the oxidizer and fuel (for example; oxygen and hydrogen) require cryogenic temperatures, or they are poisonous substances (for example; nitric acid, N₂O₃). In the past years the author and other scientists have published a series of new methods which promise to revolutionize space launching and flight. These include the cable accelerator, circle launcher and space keeper, space elevator transport system, space towers, kinetic towers, the gas-tube method, sling rotary method, asteroid employment, electromagnetic accelerator, tether system, Sun and magnetic sails, solar wind sail, radioisotope sail, electrostatic space sail, laser beam, kinetic anti-gravitator (repulsitor), Earth–Moon or Earth–Mars non-rocket transport system, multi-reflective beam propulsion system, electrostatic levitation, etc. There are new ideas in aviation which can be useful for flights in planet atmosphere. Some of these have the potential to decrease launch costs thousands of times, other allow the speed and direction of space apparatus to be changed without the spending of fuel. The author summarizes some revolutionary methods for scientists, engineers, students, and the public. He seeks attention from the public, engineers, inventors, scientists for these innovations and he hopes the media, government and the large aerospace companies will increase research and development activity in these areas.

Non-Rocket Space Launch and Flight

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Femtotechnologies and Revolutionary Projects. Germany Lambert. 2011

In recent years of the 21st Century the author of this book and other scientists as well, have instigated and described many new ideas, researches, theories, macro-projects, USA and other countries patented concep... more abstract In recent years of the 21st Century the author of this book and other scientists as well, have instigated and described many new ideas, researches, theories, macro-projects, USA and other countries patented concepts, speculative macro-engineering ideas, projects and other general innovations in technology and environment change. These all hold the enticing promise for a true revolution in the lives of humans everywhere in the Solar System. Here, the author includes and reviews new methods for converting of any matter into energy, getting of super strong materials, for travel in outer space without space suit, magnetic space launchers, magnetic space towers, motionless satellites and suspended structures, comfortable permanent settlements for cities and Earth's hazardous polar regions, control of local and global weather conditions, wireless transfer of electricity to long distance, Magnetic guns, magnetic launchers, new (magnetic, electrostatic, electronic gas) space towers, space elevators and space climbers, suppression forest fires without water, aerial gas pipelines, production of fresh water from sea water, thermonuclear reactors, along with many others. Author succinctly summarizes some of these revolutionary macro-projects, concepts, ideas, innovations, and methods for scientists, engineers, technical students, and the world public. Every Chapter has three main sections: At first section the author describes the new idea in an easily comprehensible way acceptable for the general public (no equations), the second section contains the scientific proof of the innovation acceptable for technical students, engineers and scientists, and the third section contains the applications of innovation. Author does seek future attention from the general public, other macro-engineers, inventors, as well as scientists of all persuasions for these presented innovations. And, naturally, he fervently hopes the popular news media, various governments and the large international aerospace and other engineering-focused corporations will, as well, increase their respective observation, R&D activity in the technologies for living and the surrounding human environment.

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Non Rocket Space Launch and Flight (draft, v.3). USA, Lulu, 2005

At present, rockets are used for launches and flights into space. They have been intensively developed since World War II when the German engineer F. Von Braun designed the first long distance rocket FAU-2. In the s... more abstract At present, rockets are used for launches and flights into space. They have been intensively developed since World War II when the German engineer F. Von Braun designed the first long distance rocket FAU-2. In the subsequent 60 years liquid and solid rockets reached the peak of their development. Their main shortcomings are (1) very high cost of space launching \$20,000 – 50,000/kg; (2) large fuel consumption; (3) fuel storage problems because the oxidizer and fuel (for example; oxygen and hydrogen) require cryogenic temperatures, or they are poisonous substances (for example; nitric acid, N₂O₃). In the past years the author and other scientists have published a series of new methods which promise to revolutionize space launching and flight. These include the cable accelerator, circle launcher and space keeper, space elevator transport system, space towers, kinetic towers, the gas-tube method, sling rotary method, asteroid employment, electromagnetic accelerator, tether system, Sun and magnetic sails, solar wind sail, radioisotope sail, electrostatic space sail, laser beam, kinetic anti-gravitator (repulsitor), Earth–Moon or Earth–Mars non-rocket transport system, multi-reflective beam propulsion system, electrostatic levitation, etc. There are new ideas in aviation which can be useful for flights in planet atmosphere. Some of these have the potential to decrease launch costs thousands of times, other allow the speed and direction of space apparatus to be changed without the spending of fuel. The author summarizes some revolutionary methods for scientists, engineers, students, and the public. He seeks attention from the public, engineers, inventors, scientists for these innovations and he hopes the media, government and the large aerospace companies will increase research and development activity in these areas.

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Innovations and New Technologies (v.2), USA, Lulu, 2013

In recent years of the 21st Century the author of this book and other scientists as well, have instigated and described many new ideas, researches, theories, macro-projects, USA and other countries patented concept... more abstract In recent years of the 21st Century the author of this book and other scientists as well, have instigated and described many new ideas, researches, theories, macro-projects, USA and other countries patented concepts, speculative macro-engineering ideas, projects and other general innovations in technology and environment change. These all hold the enticing promise for a true revolution in the lives of humans everywhere in the Solar System. In aerospace these include air catapult transportation, hypersonic ground electric AB engine, protection of the Earth from asteroids and delivery of asteroids to the Earth, re-entry space apparatus to Earth, airborne wind turbines, electronic wind generator and propulsion, long distance shells, new self-propelled penetration bomb, inexpensive mini thermonuclear reactor, etc. In technology these include new ideas and innovation in space sciences and Earth technologies: Relations between time, matter, volume, distance, and energy in the Universe; Rolling of Space (volume, distance), time, and matter into a point; Underground explosion nuclear energy; Protection of environment from damaged nuclear station; Electron hydro electric generator; Electron super speed hydro propulsion; Electric theory of tornado; Protection from tornado; and so on. Author succinctly summarizes some of these revolutionary macro-projects, concepts, ideas, innovations, and methods for scientists, engineers, technical students, and the world public. Every Chapter has three main sections: At first section the author describes the new idea in an easily comprehensible way acceptable for the general public (no equations), the second section contains the scientific proof of the innovation acceptable for technical students, engineers and scientists, and the third section contains the applications of innovation. And, naturally, he fervently hopes the popular news media, various governments and the large international aerospace and other engineering-focused corporations will, as well, increase their respective observation, R&D activity in the technologies for living and the surrounding human environment.

Innovations and New technologies

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Universe and Future of Humanity. USA, Lulu, 2010

Immortality is the most cherished dream and the biggest wish of any person. In book the author shows that the problem of immortality can be solved only by changing the biological human into an artificial form. Aft... more abstract Immortality is the most cherished dream and the biggest wish of any person. In book the author shows that the problem of immortality can be solved only by changing the biological human into an artificial form. After natural death the man and his consciousness, mind may be converted in a new electronic form. Such an immortal person made of chips and super-solid material (the E-man, E-being as was called in earlier author articles and book) will have incredible advantages in comparison to conventional biological people. An E-man will need no food, no dwelling, no air, no sleep, no rest, and no ecologically pure environment. His brain will work from radio-isotopic batteries (which will work for decades) and muscles that will work on small nuclear engines. Such a being will be able to travel into space and walk on the sea floor with no aqualungs. He will change his face and figure. He will have super-human strength and communicate easily over long distances to gain vast amounts of knowledge in seconds (by re-writing his brain). His mental abilities and capacities will increase millions of times. It will be possible for such a person to travel huge distances at the speed of light. The information of one person like this could be transported to other planets with a laser beam and then placed in a new body. The biological people gradually transfers in E-beings. The biological civilization little by little converts in higher electronic civilization. In further development of technology the electronic civilization may be converted in a wave electromagnetic civilization and so on. This is the popular book about the Universe, the development of new technologies in 21st century and future of human race. Author shows that a human soul is only the information in a person head. He offers new unique method for re-writing the main brain information in chips without any damage of human brain. This is the scientific prediction of the non-biological (electronic) civilization and immortality of human being. Such a prognosis is predicated upon a new law, discovered by the author, for the development of complex systems. According to this law, every self-copying system tends to be more complex than the previous system, provided that all external conditions remain the same. The consequences are disastrous: humanity will be replaced by a new civilization created by intellectual robots (which the author refers to as "E-humans" and "E-beings"), These creatures, whose intellectual and mechanical abilities will far exceed those of man, will require neither food nor oxygen to sustain their existence. They may have the emotion. Capable of developing science, technology and their own intellectual abilities thousands of times faster than humans can, they will, in essence, be eternal.

Future of humanity

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Macro-Projects: Environments and Technologies

By Alexander Bolonkin and Richard Cathcart

In recent years of the 21st Century the authors of this book and other scientists as well, have instigated and described many new macro-projects, USA and other countries patented concepts, speculative Macro-engineerin... more abstractIn recent years of the 21st Century the authors of this book and other scientists as well, have instigated and described many new macro-projects, USA and other countries patented concepts, speculative Macro-engineering ideas, and other general innovations in technology and environment change. These all hold the enticing promise for a true revolution in the lives of humans everywhere in the Solar System. Here, the authors include and review new methods for travel in outer space, promising means to increase the safety of aviation, comfortable permanent settlements on the Moon and Mars, as well as for Earth's hazardous polar regions, control of local and global weather conditions, new methods of irrigation "without water", conversion of cold and hot deserts and Earth's non-twin polar regions to 'evergreen' gardens, protection against forecasted hurricane storm surge waves and inundations, unpredictable tsunami, and other weather-related floods, cheap protection of cities against nuclear warheads and aviation bombs, magnetic aircraft, channels for free traveling in outer space, thermonuclear reactors, wind power stations, along with many others. Here we succinctly summarize some of these revolutionary macro-projects, concepts, ideas, innovations, and methods for scientists, engineers, technical students, and the world public. We do seek future attention from the general public, other macro-engineers, inventors, as well as scientists of all persuasions for these presented innovations. And, naturally, we fervently hope the popular news media, various governments and the large international aerospace and other engineering-focused corporations will, as well, increase their respective observation, R&D activity in the technologies for living and the surrounding human environment.

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New Concepts, Ideas and Innovations in Aerospace, Technology and Human Sciences

In last years the author and other scientists have published a lot of new concepts, ideas, and innovations in aerospace, science, and technology. These ideas promise the revolutions in aerospace, technology and human ... more abstract

In last years the author and other scientists have published a lot of new concepts, ideas, and innovations in aerospace, science, and technology. These ideas promise the revolutions in aerospace, technology and human life. In aerospace these include the new method of flight - AB levitation. This method allows humanity to flight as bird, riches a very high speeds and free flight to space; the electrostatic ramjet and beam space propulsions; electrostatic magsail; high speed solar sail; a transfer of electricity in long distance at space; the space thermonuclear propulsion, the new electrostatic engine which can be used as driver for space launcher and accelerator of space ships, as an engine in new electrostatic high speed train; etc. In technology these include the new mini-thermonuclear reactor, utilization of high altitude wind energy, protection from tsunami, control of local and global weather, converting of deserts and polar Earth regions in 'evergreen' gardens, high altitude gas pipeline, and so on. In human science there include electronic immortality of people. New ideas in space/aviation may be useful for flights in space and in planet atmosphere. Some of these have the potential to decrease launch costs thousands of times, other allow the speed and direction of space apparatus to be changed without the spending of fuel. The author summarizes some revolutionary concepts, ideas, innovations, and methods for scientists, engineers, students, and the public. He seeks attention from the public, engineers, inventors, scientists for these innovations and he hopes the media, government and the large aerospace companies will increase research and development activity in these areas.

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Non Rocket Space Launch and Flight, Graph V.3.

At present, rockets are used for launches and flights into space. They have been intensively developed since World War II when the German engineer F. Von Braun designed the first long distance rocket FAU-2. In the s... more abstract At present, rockets are used for launches and flights into space. They have been intensively developed since World War II when the German engineer F. Von Braun designed the first long distance rocket FAU-2. In the subsequent 60 years liquid and solid rockets reached the peak of their development. Their main shortcomings are (1) very high cost of space launching \$20,000 – 50,000/kg; (2) large fuel consumption; (3) fuel storage problems because the oxidizer and fuel (for example; oxygen and hydrogen) require cryogenic temperatures, or they are poisonous substances (for example; nitric acid, N2O3). In the past years the author and other scientists have published a series of new methods which promise to revolutionize space launching and flight. These include the cable accelerator, circle launcher and space keeper, space elevator transport system, space towers, kinetic towers, the gas-tube method, sling rotary method, asteroid employment, electromagnetic accelerator, tether system, Sun and magnetic sails, solar wind sail, radioisotope sail, electrostatic space sail, laser beam, kinetic anti-gravitator (repulsitor), Earth–Moon or Earth–Mars non-rocket transport system, multi-reflective beam propulsion system, electrostatic levitation, etc. There are new ideas in aviation which can be useful for flights in planet atmosphere. Some of these have the potential to decrease launch costs thousands of times, other allow the speed and direction of space apparatus to be changed without the spending of fuel. The author summarizes some revolutionary methods for scientists, engineers, students, and the public. He seeks attention from the public, engineers, inventors, scientists for these innovations and he hopes the media, government and the large aerospace companies will increase research and development activity in these areas.

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Болонкин А.А. Новые методы оптимизации и их применение. v3. Краткий конспект лекции по курсу "Теория оптимальных систем". — М.: Издание МВТУ им. Баумана, 1972. — 220 стр. Краткий конспект лекций по курсу "Теория опти... more abstract

Болонкин А.А. Новые методы оптимизации и их применение. v3. Краткий конспект лекции по курсу "Теория оптимальных систем". — М.: Издание МВТУ им. Баумана, 1972. — 220 стр. Краткий конспект лекций по курсу "Теория оптимальных систем", прочитанных автором для студентов старших курсов, аспирантов, инженеров и преподавателей в 1962-1969гг в Московском авиационном технологическом институте и в 1969-1971гг в МВТУ им. Баумана. Автор излагает принципиально новые методы оптимизации, поиска глобального минимума и применяет их в технических задачах автоматизации, динамики полета, авиации, космонавтике, комбинаторике, в теории игр, задачах с противодействием и т.п. Краткое оглавление: Математические основы методов оптимизации. Методы β - и γ -функционалов. Методы α -функционала. Метод максимина. Численная реализация алгоритмов α -функционала и максимина, другие численные методы. Импульсные режимы. Специальные экстремали в задачах оптимального управления. Специальные экстремали и разрешимость задач оптимального управления. Приложение методов α - , β -функционалов и максимина к техническим задачам. Некоторые задачи автоматизации. Некоторые задачи динамики полета. Применение методов α -функционала к экстремальным задачам комбинаторного типа. Задачи с противодействием.

Методы оптимизации

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Memoirs of Soviet Political Prisoner, New York, 1991.

Alexander Bolonkin is a Doctor of Technical Sciences, specialist in aviation, rockets, and mathematics. He worked in experimental-design bureaus of O.K.Antonov, V.P.Glushko, taught in Moscow Aviation Institute, Moscow... more abstract

Alexander Bolonkin is a Doctor of Technical Sciences, specialist in aviation, rockets, and mathematics. He worked in experimental-design bureaus of O.K.Antonov, V.P.Glushko, taught in Moscow Aviation Institute, Moscow Aviation Technology Institute, and Moscow Technical University named Bauman. He is an author of more than 250 scientific works and 17 inventions. He was first arrested in 1972 on accusation of distributing works of academician A.D. Sakharov, writer A.I. Solzhenitsyn and others. He was sent to a concentration camp and then to exile where he spent 15 years. When perestroika began he was discharged and

deported abroad. Now he lives in the USA. Candidate of Pedagogical Sciences (Ph.D.) Ivan Martynov Alexander Bolonkin had everything one can wish for: interesting job in the most prestigious sphere of space engineering, advanced degree of Doctor of Sciences, material well-being. He possessed all this and he resigned all this standing up against the regime in the years when the end of its existence couldn't be predicted. He began struggling and lost everything. A new life of political prisoner, with all its dreadful aspects, began. Doctor of Historical Sciences (Ph.D.) Vladimir Gusarov "TWO LIVES OF ALEXANDER BOLONKIN – A SCOLAR AND A POLITIVAL PRISONER" /From the series of programs of Russian-American radio in the USA // 4 programs for 45 min. each/

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Human Immortality and Electronic Civilization, USA, New York, 2007

Immortality is the most cherished dream and the biggest wish of any person. In book the author shows that the problem of immortality can be solved only by changing the biological human into an artificial form. Such an... more abstract Immortality is the most cherished dream and the biggest wish of any person. In book the author shows that the problem of immortality can be solved only by changing the biological human into an artificial form. Such an immortal person made of chips and super-solid material (the E-man, as was called in earlier author articles and book) will have incredible advantages in comparison to conventional people. An E-man will need no food, no dwelling, no air, no sleep, no rest, and no ecologically pure environment. His brain will work from radio-isotopic batteries (which will work for decades) and muscles that will work on small nuclear engines. Such a being will be able to travel into space and walk on the sea floor with no aqualungs. He will change his face and figure. He will have super-human strength and communicate easily over long distances to gain vast amounts of knowledge in seconds (by re-writing his brain). His mental abilities and capacities will increase millions of times. It will be possible for such a person to travel huge distances at the speed of light. The information of one person like this could be transported to other planets with a laser beam and then placed in a new body. This is the popular book about the development of new technologies in 21st century and future of human race. Author shows that a human soul is only the information in a person head. He offers new unique method for re-writing the main brain information in chips without any damage of human brain. This is the

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 ----- Key words: computer, future of humanity, 21st Century, non-biological civilization, immortality

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New Media

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LIFE. SCIENCE. FUTURE ((Biography notes, researches and innovations).

A human life is special. It may turn this or that way and put you on trial. Unfortunately, young people very often make the same mistakes their parents did. That is why if we have a look at biographies of senior people... more abstractA human life is special. It may turn this or that way and put you on trial. Unfortunately, young people very often make the same mistakes their parents did. That is why if we have a look at biographies of senior people – especially those ones who lived unusual lives and had very special destinies – it may help us to avoid many mistakes, delusions, wrong decisions and deceit. Of course, political powers, authorities, regimes and social situation constantly change, but there are some vital general basics always remaining in a human society and they are quite necessary to be realized and understood for an individual to survive and not to repeat stupid mistakes of older generations. This is the prime and important goal of this book. The author of this book is a researcher. A main goal of any true researcher is impartial and comprehensive investigation of the reality, discovering its laws and building models of nature, environment, human and society behavior. These laws help to predict human and environment reaction to our activity, and consequently, achieve required results and make all human progress move forward. The most important feature of a true researcher is the ability to change (or revise) his opinions, conclusions and regulations in case the reality response does not coincide with his theories and forecasts. The author worked a lot for Soviet aviation, rocket and space industries and in research labs of

the NASA and USAir Force. He was not much interested in minor routine technical problems which were again and again to be solved by engineers and scientists in the course of projecting, designing and final operational development of some spacecraft or rocket, and which he was supposed to deal with by virtue of office. His spare time was devoted, first of all to breakthrough technologies of the future which would make mankind leap to a new stage of technological progress. Some of these technologies suggested by the author are understandably expounded in a special Appendix to this book (Breakthrough to the Future) Besides current and future problems of aviation, astronautics, energy, breakthrough technologies of the future he devoted a lot of time to the purpose of existence and to the future of mankind, or more exactly to the future of Intellect and Universe. The Self-copying System Complexity Increase law discovered by Alexander Bolonkin explains not only beginnings of Homo Sapience on Earth, but also its inevitable transition into E-creatures and to Superior Intellect (to God, as true believers would say), to a total control by its Universe laws and creation of new Universes with new life. All these ideas are compactly and plainly expounded in a special chapter of this book (Pondering on Life, Progress, Mankind and Science) so that a reader uninterested in these problems may just skip this section.

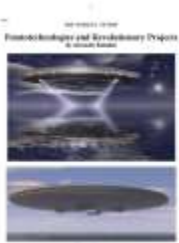
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distance, and energy in the Universe; Rolling of Space (volume, distance), time, and matter into a point; Underground explosion nuclear energy; Protection of environment from damaged nuclear station; Electron hydro electric generator; Electron super speed hydro propulsion; Electric theory of tornado; Protection from tornado; and so on. Author succinctly summarizes some of these revolutionary macro-projects, concepts, ideas, innovations, and methods for scientists, engineers, technical students, and the world public. Every Chapter has three main sections: At first section the author describes the new idea in an easily comprehensible way acceptable for the general public (no equations), the second section contains the scientific proof of the innovation acceptable for technical students, engineers and scientists, and the third section contains the applications of innovation. And, naturally, he fervently hopes the popular news media, various governments and the large international aerospace and other engineering-focused corporations will, as well, increase their respective observation, R&D activity in the technologies for living and the surrounding human environment.

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Impulse solutions in optimization problems

The author considers the optimization problem named 'the impulse regime', when the control can have for a short time an instantaneous infinity value and the phase variables have gaps. In mathematics these mean: the ... more abstract The author considers the optimization problem named 'the impulse regime', when the control can have for a short time an instantaneous infinity value and the phase variables have gaps. In mathematics these mean: the variables are not continuous, not differentiable. The variable calculation and Pontryagin principle are not applicable. These problems are in space trajectories, theory of corrections, nuclear physics, economics, advertising and other real control tasks. We need a special theory and special methods for solution of these problems. Author offers the following method, which simplifies and solves these tasks. Key words: Optimization, impulse solutions, optimal control.

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Air Hypersonic Electronically Propulsion

Aviation, in general, and aerospace in particular needs new propulsion systems which allow the craft to reach high speeds by cheaper and more efficient methods. Author offers a new propulsion system using electr... more abstract Aviation, in general, and aerospace in particular needs new propulsion systems which allow the craft to

reach high speeds by cheaper and more efficient methods. Author offers a new propulsion system using electrons for acceleration of the craft and having a high efficiency. As this system does not heat the air, it does not have the heating limitations of conventional air ramjet hypersonic engines. Offered engine can produce a thrust from a zero flight speed up to the desired space apparatus speed. It can work in any planet atmosphere (gas, liquid) and at very high altitude. The system can use apparatus surface for thrust and braking. For energy the system uses high voltage electricity which is not a problem if you have an appropriate electrostatic generator connected with any suitable engine.

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Ultra-Cold Thermonuclear Synthesis. Criterion of Cold Fusion

All scientists know well: for reaching the nucleus fusion, we need the gigantic temperature in hundreds millions degrees. Only in this case the kinetic energy of nucleus overcomes the repulsive electric force of nuc... more abstract All scientists know well: for reaching the nucleus fusion, we need the gigantic temperature in hundreds millions degrees. Only in this case the kinetic energy of nucleus overcomes the repulsive electric force of nucleus and connects two initial nucleuses to one new nucleus. In last sixty years, the scientists spent the tens billion dollars attempting to develop useful thermonuclear energy. But they cannot yet reach a stable thermonuclear reaction. They still are promising publically, after another 15 – 20 years, and more tens of billions of US dollars to finally design the expensive workable industrial installation, which possibly will produce electric energy more expensive than current heat, wind and hydro-electric stations can in 2015. Author uses the well-known physical laws and shows the other opposed cheap way: very low temperatures ($0.01 \div 10K$) and high pressure (some thousands or millions of atmospheres) allow reaching the same results: themonuclear fusion. He uses not kinetic energy of nucleus again repulsive force of nucleous as in conventional methods. He uses the blocking the repulsive forces of nucleos by electrons (sphere Debya), very low temperature and high pressure. In current time to reach these temperature and pressure are easely than hundreds millions degrees by magnetic or inercial confinement. New method the themonuclear fusion very cheap and allows to use other thermonuclear fuel which are cheaper and produce the aneutronic reaction. Author offers the new Criterion for Ultra Cold Termonuclear Fusion.

Nuclear Energy and Thermonuclear Fusion

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Новые методы оптимизации и их применение. Часть 2 (New methods of optimization and its application. Part 2 (in Russian))

Настоящая диссертация состоит из двух частей. Первая часть посвящена математическим основам новых методов оптимизации, вторая часть – примеры и приложения этих методов к ряду технических задач. В отличие от класси... more abstract Настоящая диссертация состоит из двух частей. Первая часть посвящена математическим основам новых методов оптимизации, вторая часть – примеры и приложения этих методов к ряду технических задач. В отличие от классической постановки задачи оптимизации: а) Дан ункционал. Требуется найти его абсолютную минималь. Эта задача в подавляющем большинстве случаев очень трудна и чаще всего неразрешима. Поэтому в первой части рассматриваются также иные постановки задач: б) Найти более «узкое» подмножество, содержащее абсолютную минималь. в) Найти подмножество решений лучших, чем данное. г) Найти оценки снизу данного функционала. В настоящее время большинство исследователей, работающих в области оптимизации, заняты решением задачи в традиционной (классической) постановке – отысканием точной минимали (задача а). Инженера же, как правило, в реальных задачах интересует подмножество квазиоптимальных решений, выбирая из которого, он заранее уверен в получении функционала не хуже заданной величины (задача в) и оценки снизу, показывающих насколько далек он от точного оптимального оптимального решения (задача г). К тому же обычно у него есть много дополнительных соображений, которые нельзя учесть в математической модели или которые бы ее сильно усложнили. Постановка задачи в форме в дает ему определенную свободу выбора. Задача г имеет и самостоятельный интерес. Если есть оценка снизу, близкая к точной нижней грани функционала, то задачу оптимизации часто можно решить подбором квазиоптимального решения. Задача же б может существенно облекчить решение любой из перечисленных задач, так как сужает множество, на котором следует искать решение. Перечисленные неклассические постановки задач потребовали новых методов решения, отличных от известных методов вариационного исчисления, принципа максимума или динамического программирования. Оказалось, что новые методы обладают значительной общностью и при попытке решить с их помощью одну из перечисленных задач можно в качестве побочного продукта получить решение другой задачи. Это может принести пользу. Так если получена хорошая оценка снизу, то, сравнивая с ней разные инженерные решения, часто удается получить решение, очень мало отличающееся от оптимального. Излагаемый в первой части материал не сложен, но он опирается на ряд элементарных понятий и символику из теории множеств. В диссертации принята двойная нумерация формул, теорем и рисунков. Первая цифра обозначает номер параграфа, вторая – номер формулы или теоремы в этом параграфе. Первая цифра в рисунках обозначает номер главы, вторая – номер рисунка в данной главе. Краткое изложение (Автореферат диссертации, 28 стр.) есть в интрнете <http://vixra.org/abs/1503.0081>, <http://www.twirpx.com>, Некоторые главы изложены более подробно в специальном учебном пособии «Новые методы оптимизации и их применение», Москва, Издательство МВТУ им.Баумана, 1972г., 220 стр. (См. РГБ, Российская Государственная Библиотека, Ф-801-83/869-6). <http://vixra.org/abs/1504.0011> v4., <https://www.academia.edu/11054777/> Пособие содержит также большое число примеров, упражнений и задач.

Optimization (Mathematics)

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Новые методы оптимизации и их применение. Часть 1. (New methods of optimization and its application. Part 1 (in Russian))

Настоящая диссертация состоит из двух частей. Первая часть посвящена математическим основам новых методов оптимизации, вторая часть – примеры и приложения этих методов к ряду технических задач. В отличие от класси... more abstract Настоящая диссертация состоит из двух частей. Первая часть посвящена математическим основам новых методов оптимизации, вторая часть – примеры и приложения этих методов к ряду технических задач. В отличие от классической постановки задачи оптимизации: а) Дан ункционал. Требуется найти его абсолютную минималь. Эта задача в подавляющем большинстве случаев очень трудна и чаще всего неразрешима. Поэтому в первой части рассматриваются также иные постановки задач: б) Найти более «узкое» подмножество, содержащее абсолютную минималь. в) Найти подмножество решений лучших, чем данное. г) Найти оценки снизу данного функционала. В настоящее время большинство исследователей, работающих в области оптимизации, заняты решением задачи в традиционной (классической) постановке – отысканием точной минимали (задача а). Инженера же, как правило, в реальных задачах интересуется подмножество квазиоптимальных решений, выбирая из которого, он заранее уверен в получении функционала не хуже заданной величины (задача в) и оценки снизу, показывающих насколько далек он от точного оптимального оптимального решения (задача г). К тому же обычно у него есть много дополнительных соображений, которые нельзя учесть в математической модели или которые бы ее сильно усложнили. Постановка задачи в форме в дает ему определенную свободу выбора. Задача г имеет и самостоятельный интерес. Если есть оценка снизу, близкая к точной нижней грани функционала, то задачу оптимизации часто можно решить подбором квазиоптимального решения. Задача же б может существенно облекчить решение любой из перечисленных задач, так как сужает множество, на котором следует искать решение. Перечисленные неклассические постановки задач потребовали новых методов решения, отличных от известных методов вариационного исчисления, принципа максимума или динамического программирования. Оказалось, что новые методы обладают значительной общностью и

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Optimization

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Man in Outer Space without Space Suite

The author proposes and investigates his old idea - a living human in space without the encumbrance of a complex space suit. Only in this condition can biological humanity seriously attempt to colonize space because... more abstract The author proposes and investigates his old idea - a living human in space without the encumbrance of a complex space suit. Only in this condition can biological humanity seriously attempt to colonize space because all planets of Solar system (except the Earth) do not have suitable atmospheres. Aside from the issue of temperature, a suitable partial pressure of oxygen is lacking. In this case the main problem is how to satiate human blood with oxygen and delete carbonic acid gas (carbon dioxide). The proposed system would enable a person to function in outer space without a space suit and, for a long time, without food. That is useful also in the Earth for sustaining working men in an otherwise deadly atmosphere laden with lethal particulates (in case of nuclear, chemical or biological war), in underground confined spaces without fresh air, under water or a top high mountains above a height that can sustain respiration. Key words: Space suit, space

colonization, space civilization, life on Moon, Mars and other planets, people existing in space.

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Electric Theory of Tornado. Protection from Tornado.

The author develops a new theory of tornado stability. He show that it is the high electric voltage between clouds and ground surface which produces the intensive electron/ion flow which creates the air stream which... more abstract The author develops a new theory of tornado stability. He show that it is the high electric voltage between clouds and ground surface which produces the intensive electron/ion flow which creates the air stream which sucks off (pumping) air from the inside tornado channel and makes the tornado stable. If we want to destroy tornado stability we must decrease the electric intensity into the tornado channel. The simplest method is using conductive wire to connect the top funnel of tornado with ground. For this method, the top end of wire must have a large conductive area (air balloon or wing dirigible with conductive layer), the lower end of wire must have good contact with wet ground. The row from these conductive wires having step 150 – 200 m and altitude 200 – 300 m can protect villages, towns and important installations such as the nuclear electric station and military bases from tornados. -----

----- Keywords: Tornado, stability of tornado, protection from tornado, hurricane, Bolonkin.

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Converting of Matter to Nuclear Energy

Author offers a new nuclear generator which allows to convert any matter to nuclear energy in accordance with the Einstein equation $E=mc^2$. The method is based upon tapping the energy potential of a Micro Black Hole (M... more abstract Author offers a new nuclear generator which allows to convert any matter to nuclear energy in accordance with the Einstein equation $E=mc^2$. The method is based upon tapping the energy potential of a Micro Black Hole (MBH) and the Hawking radiation created by this MBH. As is well-known, the vacuum continuously produces virtual pairs of particles and antiparticles, in particular, the photons and anti-photons. The MBH event horizon allows separating them. Anti-photons can be moved to the MBH and be annihilated; decreasing the mass of the MBH, the resulting photons leave the MBH neighborhood as Hawking radiation. The offered nuclear generator (named by author as AB-Generator) utilizes the Hawking radiation and injects the matter into MBH and keeps MBH in a stable state with near-constant mass. The AB-Generator can not only produce gigantic energy outputs but should be hundreds of times cheaper than a conventional electric generation processes. The AB-Generator can be used in aerospace as a photon rocket or as a power source for numerous space vehicles. Many scientists expect the Large Hadron Collider at CERN will produce one MBH every second and the technology to capture them may be used for the AB-Generator. Key words: Production of nuclear energy, Micro Black Hole, energy AB-Generator, photon rocket. * Presented as Paper AIAA-2009-5342 in 45 Joint Propulsion Conferences, 2–5 August, 2009, Denver, CO, USA. Introduction Black hole. In general relativity, a black hole is a region of space in which the gravitational

Nuclear Energy

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FEMTOTECHNOLOGY: THE STRONGEST AB-MATTER FOR AEROSPACE

Aerospace, aviation particularly need, in any era, the strongest and most thermostable materials available, often at nearly any price. The Space Elevator, space ships (especially during atmospheric reentry), rocket... more abstract Aerospace, aviation particularly need, in any era, the strongest and most thermostable materials available, often at nearly any price. The Space Elevator, space ships (especially during atmospheric reentry), rocket combustion chambers, thermally challenged engine surfaces, hypersonic aircraft materials better than any now available, with undreamed of performance as the reward if obtained. As it is shown in this research, the offered new material allows greatly to improve the all characteristics of space ships, rockets, engines and aircraft and design new types space, propulsion, aviation systems. At present the term 'nanotechnology' is well known – in its' ideal form, the flawless and completely controlled design of conventional molecular matter from molecules or atoms. But even this yet unachieved goal is not the end of material science possibilities. The author herein offers the idea of design of new forms of nuclear matter from nucleons (neutrons, protons), electrons, and other nuclear particles. He shows this new 'AB-Matter' has extraordinary properties (for example, tensile strength, stiffness, hardness, critical temperature, superconductivity, supertransparency, zero friction, etc.), which are up to millions of times better than corresponding properties of conventional molecular matter. He shows concepts of design for space ships, rockets, aircraft, sea ships, transportation, thermonuclear reactors, constructions, and so on from nuclear matter. These vehicles will have unbelievable possibilities (e.g., invisibility, ghost-like penetration through any walls and armour, protection from nuclear bomb explosions and any radiation flux, etc.) Nanotechnology, in near term prospect, operates with objects (molecules and atoms) having the size in nanometer (10^{-9} m). The author here outlines perhaps more distant operations with objects (nuclei) having size in the femtometer range, (10^{-15} m, millions of times less smaller than the nanometer scale). The name of this new technology is femtotechnology. Key words: femtotechnology, nuclear matter, artificial AB-Matter, superstrength matter, superthermal resistance, invisible matter, super-protection from nuclear explosion and radiation. * Presented as paper AIAA-2009-4620 to 45 Joint Propulsion Conference, 2-5 August, 2009, Denver CO, USA.

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