

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

1. **List 5-th of Bolonkin's publications in 2007-2014 (Loading is free):**  
<https://archive.org/details/List5OfBolonkinPublications>, <http://intellectualarchive.com> #1392.  
[http://samlib.ru/editors/b/bolonkin\\_a\\_a/list5bolonkinspublicationin2007-2014.shtml](http://samlib.ru/editors/b/bolonkin_a_a/list5bolonkinspublicationin2007-2014.shtml) ,  
<https://www.academia.edu/9251433/>
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): (42 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).  
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6. Bolonkin's WEB <http://Bolonkin.narod.ru/p65.htm> .
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- 2) **Human Immortality and Electronic Civilization. Lulu, USA, 3<sup>rd</sup> edition (in English), 2007.**  
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- 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](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](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](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>,

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(v1, old) , <https://archive.org/details/BookOptimization3InRussianInWord20032415> **v2**,  
[https://archive.org/details/BookOptimization3InRussianInWord20032415\\_201502](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.  
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- 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.
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- 31) **Optimal Trajectories of Air and Space Vehicles**. For BP. <http://vixra.org> Ref. 8386002, <https://archive.org/details/ArticleOptimalTrajectoriesOfAirAndSpaceVehicles4115>, <https://independent.academia.edu/AlexanderBolonkin/Papers> , <http://intellectualarchive.com/> #1498.

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- 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. <http://vixra.org/abs/1309.0200>, <http://www.scribd.com/doc/24048466/> .
- 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://www.archive.org/details/ConvertingOfAnyMatterToNuclearEnergyByAb-generatorAndAerospace> , <http://www.scribd.com/doc/57419950/Converting-of-Matter-to-Nuclear-Energy-by-AB-Generator-and-its-Application> , <http://intellectualarchive.com> #1361, <http://gsjournal.net/Science-Journals/Essays/View/5714> , <http://GSJournal.net> (10 3 14) .
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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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[ADD TO CART »](#)

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

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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SEE FIRST PAGE »

ADD TO CART »

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Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

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SEE FIRST PAGE »

ADD TO CART »

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Alexander Bolonkin CandR Company, Brooklyn, NY, UNITED STATES

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SEE FIRST PAGE »

ADD TO CART »

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Alexander Bolonkin Eglin AFB, Brooklyn, NY, UNITED STATES

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SEE FIRST PAGE »

ADD TO CART »

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Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

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SEE FIRST PAGE »

ADD TO CART »

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Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

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SEE FIRST PAGE »

ADD TO CART »

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Alexander Bolonkin , Brooklyn, NY, UNITED STATES

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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Alexander Bolonkin , Brooklyn, NY, UNITED STATES

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[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

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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Alexander Bolonkin Eglin AFB, Brooklyn, NY, UNITED STATES

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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Alexander Bolonkin , Brooklyn, NY, UNITED STATES

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

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Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

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

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

University of New York, Brooklyn, NY, UNITED STATES

AIAA-2009-5261

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

### 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

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

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

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Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

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

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Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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Alexander Bolonkin , Brooklyn, NY, UNITED STATES

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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Alexander Bolonkin,

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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Alexander Bolonkin Air Force Research Laboratory, Eglin AFB, FL, UNITED STATES; Robert Sierakowski Air Force Research Laboratory, Eglin AFB, FL, UNITED STATES

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Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

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

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Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

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

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Alexander Bolonkin Air Force Research Laboratory, Eglin AFB, FL, UNITED STATES; Robert Murphey Air Force Research Laboratory, Eglin AFB, FL, UNITED STATES

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

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

### 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

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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Alexander Bolonkin CandR, Brooklyn, NY, UNITED STATES

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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[SEE FIRST PAGE »](#)

[ADD TO CART »](#)

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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  
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#### 41. Search and Attack Strategies

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AIAA-2004-5424

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Type: Book.

Author(s): A. Bolonkin

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

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6 2006

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<a href="#">A.A. Bolonkin</a>	<a href="#">Femtototechnology: Design of the Strongest AB-Matter...</a>	Aerospace, aviation particularly need, in any era, the strongest and most thermostable materials available, often at nearly any pr...	Public	2012-02-29 17:41:25	<a href="#">170</a>
<a href="#">A.A. Bolonkin</a>	<a href="#">Converting of any Matter to Nuclear Energy by AB-G...</a>	Author offers a new nuclear generator which allows to convert any matter to nuclear energy in accordance with the Einstein equatio...	Public	2012-02-29 17:32:30	<a href="#">169</a>
<a href="#">A.A. Bolonkin</a>	<a href="#">Air Catapult Transport</a>	The current flight passenger-transport and cargo systems have reached the peak of their development. In the last 30 years there ha...	Public	2012-02-29 17:30:36	<a href="#">168</a>
<a href="#">A.A. Bolonkin</a>	<a href="#">Aerial Altitude Gas Pipeline</a>	Design of new cheap aerial pipelines, a large flexible tube deployed at high altitude, for delivery of natural (fuel) gas over a l...	Public	2012-02-29 17:28:20	<a href="#">167</a>
<a href="#">A.A. Bolonkin</a>	<a href="#">AB ELECTRONIC TUBES AND QUASI-SUPERCONDUCTIVITY AT...</a>	Authors offer and research a new macro-engineering idea - filling tubes by electronic gases. Shown: If the insulating envelope (co...	Public	2012-02-29 17:22:26	<a href="#">166</a>
<a href="#">A.A. Bolonkin</a>	<a href="#">Suppression of Forest Fire by Helicopter without W...</a>	The natural occurrences of wildfires damage nature areas, produce the hundreds of millions of dollars in losses, and considerable ...	Public	2012-02-29 17:19:45	<a href="#">165</a>
<a href="#">A.A. Bolonkin</a>	<a href="#">Space Wing Electro Relativistic AB-Ship</a>	Author offers and develops the theory of a new class of space wing electro ship. A biplane wing and an electric field between the ...	Public	2012-02-29 17:17:07	<a href="#">164</a>
<a href="#">A.A. Bolonkin</a>	<a href="#">Live of Humanity in Outer Space without Space Suit...</a>	The author proposes and investigates his old idea - a living human in space without the encumbrance of a complex space suit. Only ...	Public	2012-02-29 17:13:54	<a href="#">163</a>
<a href="#">A.A. Bolonkin</a>	<a href="#">Dome Shield: A Method to Contain Radioactive Dust ...</a>	The author, in a series of previous articles, designed the AB Dome made of transparent thin film supported by a small additional a...	Public	2012-02-29 17:08:26	<a href="#">162</a>
<a href="#">A.A. Bolonkin</a>	<a href="#">Problems of Science Research and Technical Progres...</a>	At the present time the USA's Federal Government spends enormous sums of taxpayer money for Scientific Research and Development (R...	Public	2012-02-27 17:54:38	<a href="#">156</a>

<a href="#">A.A. Bolonkin</a>	<a href="#">Femtotechnology: Stability of AB-Needles. Fantasti...</a>	In article "Femtotechnology: Nuclear AB-Matter with Fantastic Properties" *1+ American Journal of Engineering and Applied Sciences...	Public	2012-02-27 17:46:43	<a href="#">155</a>
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[7. "Electron Hydro Electric Generator", Alexander Bolonkin, Special Issue-1-7](#)

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[7."Underground Explosion Nuclear Energy", Alexander Bolonkin, IJAEA-1-6-7](#)

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List of some last scientific publications by Alexander **Bolonkin**

**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](#); [Consentration 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 ...  
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-  [PROBLEMS OF SCIENCE RESEARCH AND TECHNICAL PROGRESS](#) - ALEXANDER **BOLONKIN** and SHMUEL NEUMANN  
 At the present time the USAâs Federal Government spends enormous sums of taxpayer money for Scientific Research and Development (R&D). How to best organize this vast governmental activity, how to best estimate its ultimate utility and profitability (real and potential), how to best increase efficiency of innovation and production, how to best estimate the worth of new discoveries and innovations, how to properly fund R&D of new concepts and innovations, and how to correctly estimate their resul...  
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-  [PROBLEMS OF SCIENCE RESEARCH AND TECHNICAL PROGRESS](#) - A. **Bolonkin**, S. Neumann  
 At the present time the USAâs Federal Government spends enormous sums of taxpayer money for Scientific Research and Development (R&D). How to best organize this vast governmental activity, how to best estimate its ultimate utility and profitability (real and potential), how to best increase efficiency of innovation and production, how to best estimate the worth of new discoveries and innovations, how to properly fund R&D of new concepts and innovations, and how to correctly estimate their resul...  
**Keywords:** [Organizing scientific research](#); [planning of research](#); [funding research](#); [funding new ideas \(concepts\)](#); [funding inventions and innovations](#); [estimating research cost](#); [assessment of research results](#); [research efficiency criteria](#); [innovation in organizing of scientific R&D](#)
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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 magnetic sail](#); [solar wind sail](#); [radioisotope sail](#); [electrostatic space sail](#); [laser beam propulsion system](#); [kinetic anti-gravitator \(repulsator\)](#); [Earth-Moon non-rocket and Earth-Mars non-rocket transport system](#); [multi-reflective beam propulsion system](#); [electrostatic levitation](#); [recombination engine](#); [electronic sail](#); [solar sail](#)

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[Book Non Rocket New 2 V 2 From Archive 10 12 13](#) - **Bolonkin**

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](#)

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 [Review 2 of new ideas, innovations of non-rocket propulsion systems for Space Launch and Flight](#) - Akexander **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 creates a narrow canal, then injects into this canal explosives which upon detonation pushes the bomb deeper into the Earth by special rocket explosions and reaches 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

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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](#)

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[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](#)

**Downloads:** 52

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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](#)

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 **[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](#)

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**[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](#)

**Downloads:** 72

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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 â 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](#)

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[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](#)

**Downloads:** 83

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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 \(Protection from radioactive dust as well as chemical, biological weapons\)](#) -

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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[space and time into point](#)

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 [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](#);

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[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](#)

**Downloads:** 74

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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...

**Keywords:** [SOLAR RADIATION](#); [LIGHT \(VISIBLE RADIATION\)](#); [STELLAR ATMOSPHERES](#); [OBSERVATORIES](#); [UPPER ATMOSPHERE RESEARCH SATELLITE \(UARS\)](#); [SPACECRAFT INSTRUMENTS](#); [SOLSTICES](#); [SPACECRAFT LAUNCHING](#); [HIGH ALTITUDE](#); [DATA PROCESSING](#); [SPACECRAFT CONTROL](#); [FLIGHT OPERATIONS](#)

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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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 [Estimated Benefits of Variable-Geometry Wing Camber Control for Transport Aircraft](#) - **Bolonkin**, Alexander

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...

**Keywords:** [ABLATION](#); [COMPUTER PROGRAMS](#); [FINITE DIFFERENCE THEORY](#); [ACTIVATION ENERGY](#); [CARBON-PHENOLIC COMPOSITES](#); [PHENOLIC RESINS](#); [THERMOGRAVIMETRY](#); [ROCKET NOZZLES](#); [THERMOCOUPLES](#); [NONLINEARITY](#); [CALIBRATING](#)

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 [Optimal Inflatable Space Towers with 3 - 100 km Height](#) - **Bolonkin**, Alexandre

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

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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...

**Keywords:** [New Concepts](#); [New Ideas](#); [innovations](#); [new technologies](#); [Immortality](#); [Electronic civilization](#)

**Downloads:** 113

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 [Macro-Projects: Environments and Technologies](#) - Alexander **Bolonkin**, Richard Cathcart

**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...

**Keywords:** [Macro Projects](#); [Environments](#); [Technology](#); [Aerospace](#); [Energy](#)

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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.

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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](#); [skiplane](#)

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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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 **[Innovations and New Technologies](#)** - 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,

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

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 â 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 â 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](#)

**Downloads:** 323

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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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 \ Keywords: [Bolonkin](#); [AB-matter](#);  [\$\text{D}^{\circ} \text{D}^{\frac{3}{4}} \text{D} \gg \text{D}^{\frac{3}{4}} \text{D}^{\frac{1}{2}} \text{D}^{\circ} \text{D}, \text{D}^{\frac{1}{2}}\$](#) ;  [\$\text{D} \square \text{D}^{\frac{1}{4}} \text{D}^{\circ} \tilde{\text{N}}, \text{D} \mu \tilde{\text{N}} \in \text{D}, \tilde{\text{N}} \bullet \text{D}\$](#) ; [Femtotechnology](#);  [\$\text{D} \square \text{D} \mu \text{D}^{\frac{1}{4}} \tilde{\text{N}}, \text{D}^{\frac{3}{4}} \tilde{\text{N}}, \text{D} \mu \tilde{\text{N}} \dots \text{D}^{\frac{1}{2}} \text{D}^{\frac{3}{4}} \text{D} \gg \text{D}^{\frac{3}{4}} \text{D}^{\circ} \tilde{\text{N}} \bullet \tilde{\text{N}} \bullet\$](#)   
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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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 Alexander **Bolonkin**,  
 Keywords: [Bolonkin](#); [Nuclear Energy](#);  [\$\text{D}^{\circ} \text{D}^{\frac{3}{4}} \text{D} \gg \text{D}^{\frac{3}{4}} \text{D}^{\frac{1}{2}} \text{D}^{\circ} \text{D}, \text{D}^{\frac{1}{2}}\$](#) ;  [\$\text{D}^{\circ} \text{D}^{\circ} \text{D} \mu \tilde{\text{N}} \in \text{D}^{\frac{1}{2}} \text{D}^{\circ} \tilde{\text{N}} \bullet \text{D}^{\frac{1}{2}} \text{D} \mu \tilde{\text{N}} \in \text{D}^{\circ} \text{D}, \tilde{\text{N}} \bullet\$](#)   
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 Keywords: [Bolonkin](#);  [\$\text{D}^{\circ} \text{D}^{\frac{3}{4}} \text{D} \gg \text{D}^{\frac{3}{4}} \text{D}^{\frac{1}{2}} \text{D}^{\circ} \text{D}, \text{D}^{\frac{1}{2}}\$](#) ;  [\$\text{D}^{\circ} \text{D}, \text{D}^{\frac{3}{4}} \text{D}^{\circ} \tilde{\text{N}} \square \text{D}^{\circ} \tilde{\text{N}}, \text{D}, \tilde{\text{N}} \square \text{D}^{\frac{1}{2}} \text{D}^{\circ} \tilde{\text{N}} \text{fD}^{\circ} \text{D}^{\circ}\$](#) ;  [\$\text{D}, \text{D}^{\frac{1}{2}} \text{D}^{\frac{1}{2}} \text{D}^{\frac{3}{4}} \text{D}^{\circ} \tilde{\text{N}} \text{fD}, \text{D}, \text{D}, \text{D} \pm \tilde{\text{N}} \text{fD}^{\circ} \tilde{\text{N}} \text{fN}^{\circ} \text{D} \mu \text{D} \mu\$](#)   
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-  [Human Immortality and Electronic Civilization in Russian](#) - Alexander **Bolonkin**,  
 Keywords: [Immortality](#); [Electronic civilization](#); [E-being](#); [Bolonkin](#);  [\$\text{D}^{\circ} \text{D}^{\frac{3}{4}} \text{D} \gg \text{D}^{\frac{3}{4}} \text{D}^{\frac{1}{2}} \text{D}^{\circ} \text{D}, \text{D}^{\frac{1}{2}}\$](#) ;  [\$\text{D}^{\circ} \text{D} \mu \tilde{\text{N}} \square \tilde{\text{N}} \square \text{D}^{\frac{1}{4}} \text{D} \mu \tilde{\text{N}} \square \tilde{\text{N}}, \text{D}, \text{D} \mu \text{D} \gg \tilde{\text{N}} \square \text{D}^{\circ} \text{D} \mu \text{D}^{\circ}\$](#)   
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