# *Lateral Load Increment Scheme Quantization For Use In Push Over Analysis Scheme Generally Used In Multi-StoreyedStructural Analysis*

*January1st 2015 Anno Domini*

Author: **Ramesh Chandra Bagadi**
*Founder, Owner, Co-Director And Advising Scientist In Principal*
*Ramesh Bagadi Consulting LLC, Madison, Wisconsin-53715, United States Of America.*
*Email: rameshcbagadi@netscape.net*

*White Paper One {TRL73}*
of
*Ramesh Bagadi Consulting LLC*, Advanced Concepts & Think-Tank,
Technology Assistance & Innovation Center, Madison, Wisconsin-53715,
United States Of America

## Abstract

In this research manuscript, the author has detailed a *Lateral Load Increment Scheme Quantization For Use In Push Over Analysis Scheme Generally Used In Multi-Storeyed Structural Analysis.*

## Theory

One can *Note* that *Capturing* the *Mode Shapes* of *Displacement Accurately* In *Push Over Analysis Scheme* Generally Used In *Multi-Storeyed Structural Analysis* is not an easy task. *Various Schemes* of *Lateral Loading* and the *Increment Schemes* used therein such as *FEMA Load Distribution, Inverted Triangular Distribution, A Uniform Load Distribution, Kunnath's Load Distribution (Kunnath, 2004), Two-Phase Load Distribution (Jingjiang et al, 2003), Adaptive Force Patterns that are updated according to the instantaneous dynamic properties of the system under study (Bracci et al. 1997), (Lefort, 2000)* are being used currently for *Performing* the *Push Over Analysis.*

One should centrally *Note* that according to the *Inertia* and/ or *Energy Transference Phasing Theorem {see author's Literature on the Same}*, the *Loading* must be in *Phase* with the *Displacement* and especially, this is necessary for the *Load Function*, i.e., the *Load Increment Scheme.* Hence, this calls for the *Quantization of Load Increment* of the form

*New Concept 1*

*Condition 1*:

$$P(sl) = P_0 + n\Delta P$$

$$P(sl) = P_0 + n\left(\frac{1}{T}\right)\int_0^T P_0 Sin(\omega t + \phi)dt$$

Where $sl$ stands for *Storey Level*

$P_0 =$ *Average Amplitude* of the *Sinusoidal Earth Quake Simulating Load*

$T =$ *Average Time Period* of the *Sinusoidal Earth Quake Simulating Load*

$n = 0, 1, 2, ......., Max(sl)$

$\omega =$ *Average Angular Frequency* of the *Sinusoidal Earth Quake Simulating Load*

$\Delta P =$ *Average Quantized Minimum Increment to the Sinusoidal Earth Quake Simulating Load*

$\phi$ is the *Arbitrary Phase.*

Furthermore,

*New Concept 2*

*Condition 2*:

$\langle P(sl) \rangle_{\omega} < \langle X_0(sl) \rangle_{\omega}$

That is,

Where $\langle P(sl) \rangle_{\omega}$ is the *Angular Frequency* of *Average Energy* associated with the *Incremental Load*, $\langle X_0(sl) \rangle_{\omega}$ is the *Angular Frequency* of *Average Energy* associated with the *Sinusoidal Response Displacement.*

This condition is very *Critical* because to *Note* the *Higher Mode Shapes* of *Displacement*. If we do not *Enforce* this *Criterion*, we run the *Risk* of being *Unable* to *Observe All* the *Higher Mode Shapes* of *Displacement*. And this *Condition* can be *Enforced* by *Reverse Engineering* the *Design* of $\omega$ and $\phi$, the *Arbitrary Phase.*

From the above, we Derive

$\langle E(n\Delta P) \rangle < \langle nE(X_0 Sin(\omega t + \phi)) \rangle$

wherein, $\langle E(\Delta P) \rangle$ is the *Average Energy* associatedwith the *Incremental Load* and $\langle nE(X_0 Sin(\omega t + \phi)) \rangle$ is the *Average Energy* associated with the *Sinusoidal Response Displacement.*

*New Concept 3*

Energy $E = \overline{F} \cdot \dfrac{d^m \overline{x}}{dt^m}$

{see author's *Definition* Of *Energy at www.vixra.org/author/ramesh_chandra_bagadi*}

*New Concept 4*

*Inertia* and/ or *Energy Transference Phasing Theorem*

We can note from the author's *Definition* of *Energy*

$$E = \overline{F} \cdot \frac{d^m \overline{x}}{dt^m}$$

that, for *Perfect Transference* of *Energy*, the *Load* and the *Displacement* and/ or the Quantity $\frac{d^m \overline{x}}{dt^m}$

*Must* be in *Perfect Phase.*

Here, $\overline{F} =$ Force

And $\frac{d^m \overline{x}}{dt^m}$ is the $m^{th}$ Derivative of Displacement $\overline{x}$.

*New Concept 5*

*Inertia* and/ or *Energy Transference Phasing Theorem {Fractional Order Derivative Based}*

We can note from the author's *Fractional Order Derivative Based Definition* of *Energy*

$$E = \overline{F} \cdot \frac{d^{m+\alpha} \overline{x}}{dt^{m+\alpha}}$$

that, for *Perfect Transference* of *Energy*, the *Load* and the *Displacement* and/ or the Quantity $\frac{d^{m+\alpha} \overline{x}}{dt^{m+\alpha}}$

*Must* be in *Perfect Phase.*

Here, $\overline{F} =$ Force

And $\frac{d^{m+\alpha} \overline{x}}{dt^{m+\alpha}}$ is the $(m+\alpha)^{th}$ *Fractional Derivative* of *Displacement* $\overline{x}$ and

$m$ is a Positive Integer and $\alpha$ is a Constant such that $0 < \alpha < 1$. {For more on *Fractional Derivative*, see author's *Research Literature* on *Fractional Calculus in the References*}

The reason, why we are *Resorting* to the use of *Fractional Derivative* for *Slating* the *Energy Term*, is because, sometimes, it is possible that the *Obscureness* of *Loading Function Aspect* can possibly make our aforementioned *Conditions Un-Enforceable*, however this situation can easily be *Overcome* by *Resorting* to the use of *Fractional Derivative* for *Slating* the *Energy Term* helps us to finely make our *Problem Solvable.*

*New Concept 6*

The above two *Conditions* can be used *Constructively* for *Re-Designing* the *Building For Possible New LoadingFunction* with respect to *Allowable Possible Loading Function* using the advocated *'Lateral Load Increment Scheme Quantization For Use In Push Over Analysis Scheme Generally Used In Multi-Storeyed Structural Analysis'* as useful *Constraints*.

*New Concept 7*

*Condition 3*:

$$P(sl) = P_0 + n\Delta P$$

$$P(sl) = P_0 + [M]n\left(\frac{1}{T}\right)\int_0^T \left\{\frac{d^2\{X_0 Sin(\omega t + \phi)\}}{dt^2}\right\}dt$$

where $sl$ stands for *Storey Level*

$P_0 =$ *Average Amplitude* of the *Sinusoidal Earth Quake Simulating Load*

$T =$ *Average Time Period* of the *Sinusoidal Earth Quake Simulating Load*

$n = 0, 1, 2, ......., Max(sl)$

$\omega =$ *Average Angular Frequency* of the *Sinusoidal Earth Quake Simulating Load*

$\Delta P =$ *Average Quantized Minimum Increment to theSinusoidal Earth Quake Simulating Load*

$\phi$ is the *Arbitrary Phase*

$[M]$ is the Mass (Matrix)

$m$ is a Positive Integer and $\alpha$ is a Constant such that $0 < \alpha < 1$.

*New Concept 8*

*Condition 3*:

$$P(sl) = P_0 + n\Delta P$$

$$P(sl) = P_0 + [M]n\left(\frac{1}{T}\right)\int_0^T \left\{\frac{d^{m+\alpha}\{X_0 Sin(\omega t + \phi)\}}{dt^\alpha}\right\}dt$$

where $sl$ stands for *Storey Level*

$P_0$ = *Average Amplitude* of the *Sinusoidal Earth Quake Simulating Load*

$T$ = *Average Time Period* of the *Sinusoidal Earth Quake Simulating Load*

$n = 0, 1, 2, \ldots\ldots, Max(sl)$

$\omega$ = *Average Angular Frequency* of the *Sinusoidal Earth Quake Simulating Load*

$\Delta P$ = *Average Quantized Minimum Increment to theSinusoidal Earth Quake Simulating Load*

$\phi$ is the *Arbitrary Phase*

$[M]$ is the Mass (Matrix)

$m$ is a Positive Integer and $\alpha$ is a Constant such that $0 < \alpha < 1$.

*New Concept 9*

We choose the *Lower Value* of *Condition 1* (*New Concept 1*) and *Condition 3 (New Concept 7)* for our *Final Load Quantization Scheme Design.*

Also, similarly, for the *Obscure Loading Function Condition*

We choose the *Lower Value* of (*New Concept 1*) and (*New Concept 8*) for our *Final Load Quantization Scheme Design.*

**Conclusion**

One can note that the afore-detailed *Load Quantization Scheme* will enable one to do *Optimal Re-Designing Of Structures For Acceptable Levels Of New Loading Function.*

**Moral**

*Every Hand Has Its Own Glove.*

**References**

[71] Bracci J. M, Kunnath S. K. Reinhorn A. M. (1997) '**Seismic performance and retrofit evaluation of reinforced concrete structures.**', *ASCE, ST Division 123(1), 3-10.*Chai

[70] Jingjiang S., Ono T., Yangang Z., Wei W., (2003), '**Lateral load pattern in pushover analysis.**' *Earthquake Engineering and Engineering Vibration, Vol. 2(1), 99-107.*

[69] Kunnath S.K. (2004). '**Identification of modal combinations for nonlinear static analysis of building structures.**' *Computer-Aided Civil and Infrastructure Engineering,*
*19, 282-295.*

**Ramesh Chandra Bagadi**

Vixra Publications as on December 30, 2015 at

www.vixra.org/author/ramesh_chandra_bagadi

[68] **viXra:1512.0480** *submitted on 2015-12-30 06:24:39*, (1 unique-IP downloads)

**On the Theory Of Complete Recursive Sub-Sets Of A Given Set Of Concern. Definition Of A Galaxy**

**Authors:** Ramesh Chandra Bagadi
**Category:** General Mathematics

[67] **viXra:1512.0466** *submitted on 2015-12-29 04:58:39*, (0 unique-IP downloads)

**Universal Truth Of Recursive Kind {Version IV}**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[66] **viXra:1512.0464***submitted on 2015-12-28 23:48:57*, (1 unique-IP downloads)

**Universal Truth Of Recursive Kind {Version III}**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[65] **viXra:1512.0463***submitted on 2015-12-28 23:56:30*, (0 unique-IP downloads)

**Universal Complementary Lower End Prime Pair And Complementary Higher End Prime Pair**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[64] **viXra:1512.0453***submitted on 2015-12-27 22:31:48*, (1 unique-IP downloads)

**THeoryOf Evolution {Version Iv OR 4}**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[63] **viXra:1512.0427***submitted on 2015-12-25 23:02:27*, (1 unique-IP downloads)

**Schema Of Construction Of Infinity Geodesic Of Any Aspect Of Concern**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[62] **viXra:1512.0426***submitted on 2015-12-26 01:50:19*, (0 unique-IP downloads)

**Universal Un-Biased Complete Evolution**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[61] **viXra:1512.0419***submitted on 2015-12-25 05:54:12*, (10 unique-IP downloads)

**NP Versus P Problem.Schroedinger's Cat In A Box Problem**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[60] **viXra:1512.0417***submitted on 2015-12-24 22:38:29*, (2 unique-IP downloads)

**Universal Objective Of The Universe. Universal Beauty Primality.Universal Optimal Life Primality. The Aforementioned Three Aspects As Restrictions For Evolution {Version II of All The Aforementioned}**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[59] **viXra:1512.0410***submitted on 2015-12-24 05:48:20*, (0 unique-IP downloads)

**Universal Objective Of The Universe. Universal Beauty Primality.Universal Optimal Life Primality. The Aforementioned Three Aspects As Restrictions For Evolution**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[58] **viXra:1512.0407***submitted on 2015-12-23 09:21:29*, (2 unique-IP downloads)

**Representation Of Alphabets By Set Of Prime Numbers – Primality Engineering I {Version II}**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[57] **viXra:1512.0404***submitted on 2015-12-22 23:48:48*, (1 unique-IP downloads)

**Theory Of Quantum Coupling. Theory Of Quantum Lensing. Theory Of Quantum Lens Invasion.**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[56] **viXra:1512.0396***submitted on 2015-12-22 01:04:57*, (1 unique-IP downloads)

**Universal Truth Of Recursive Kind {Version II}**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[55] **viXra:1512.0389***submitted on 2015-12-21 05:26:05*, (2 unique-IP downloads)

**Universal Recursive Scheme To Generate The Sequence Of Primes Of Any Order {Say, Rth} Space**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[54] **viXra:1512.0387***submitted on 2015-12-21 05:35:54*, (1 unique-IP downloads)

**Universal Truth Of Recursive Kind**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[53] **viXra:1512.0377***submitted on 2015-12-20 05:30:29*, (4 unique-IP downloads)

**Karma-Falam. Why-To.**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[52] **viXra:1512.0359***submitted on 2015-12-18 07:14:32*, (2 unique-IP downloads)

**{1} Universal Recursive Scale Shifting Technique {2} Universal Recursion Scheme That Is Vertically {Maximally} Evolving {10-3-105}-{6-2-15}-{14-5-385}**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[51] **viXra:1512.0358***submitted on 2015-12-18 07:17:57*, (1 unique-IP downloads)

**Removing And/ Or Minimizing The Redundancies In The Primality Of Any Aspect Of Concern {Version II}**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[50] **viXra:1512.0350***submitted on 2015-12-17 04:45:31*, (4 unique-IP downloads)

**Removing And/ Or Minimizing The Redundancies In The Primality Of Any Aspect Of Concern**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[49] **viXra:1512.0345***submitted on 2015-12-17 00:49:27*, (5 unique-IP downloads)

**Universal Daily Wage Labour Work Order(s) Placed Instantaneous Quantification And Exigent Work Order(s) Realization Facilitation System**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[48] **viXra:1512.0336***submitted on 2015-12-16 06:07:38*, (10 unique-IP downloads)

**First Meaning(s) Of All The English Alphabet(s)**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[47] **viXra:1512.0323***submitted on 2015-12-15 00:08:54*, (6 unique-IP downloads)

**Recommended Human Conduct**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[46] **viXra:1512.0318***submitted on 2015-12-14 04:14:04*, (9 unique-IP downloads)

**Knowing The Infinitely Deeper Meaning - An Example Of Natural Memory Embedding**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[45] **viXra:1512.0313***submitted on 2015-12-13 23:48:21*, (8 unique-IP downloads)

**Knowing The Infinitely Deeper Meaning. The Universal Infinite Logic Distiller**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[44] **viXra:1512.0312***submitted on 2015-12-14 00:00:25*, (5 unique-IP downloads)

**On The Governmental Policy Of Acquiring And/ Or Purchase Of Individual Citizen Property For Governmental Reforms {Version I}**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[43] **viXra:1512.0305***submitted on 2015-12-13 00:19:58*, (8 unique-IP downloads)

**Universal Light Type Holistic Reference Frames For Characterizing Universal Electro-Magnetic Phenomena**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[42] **viXra:1512.0299***submitted on 2015-12-12 09:01:29*, (8 unique-IP downloads)

**Maximizing Relativistic Electro-Magnetic Fringe Displacement Effect Width**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[41] **viXra:1512.0288***submitted on 2015-12-11 07:22:21*, (7 unique-IP downloads)

**REprersentationOf Alphabets By Prime Numbers - Primality Engineering - I**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[40] **viXra:1512.0268***submitted on 2015-12-09 03:30:14*, (10 unique-IP downloads)

**Theory Of Evolution Through Consecutive Asymmetric Imaging Technique**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[39] **viXra:1512.0235***submitted on 2015-12-06 02:38:01*, (11 unique-IP downloads)

**Truth Assessment Of Any Consciousness Information**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[38] **viXra:1512.0218** *submitted on 2015-12-05 00:41:24*, (12 unique-IP downloads)

**'Pi' Value And/ Or Its Higher Order Equivalents Value Precision Quantized Increase Based Refinement Of Any Primality And/ Or Any Recursion Scheme Of Any Aspect Of Concern**

**Authors:** Ramesh Chandra Bagadi
**Category:** General Mathematics

[37] **viXra:1512.0117** *submitted on 2015-12-04 02:24:10*, (10 unique-IP downloads)

**Holistic Flood Proof City Design. Instantaneous Flood Water Draining System Theory**

**Authors:** Ramesh Chandra Bagadi
**Category:** General Mathematics

[36] **viXra:1512.0021** *submitted on 2015-12-03 00:53:45*, (6 unique-IP downloads)

**Universal Aspect Recursion Scheme {Version 2}**

**Authors:** Ramesh Chandra Bagadi
**Category:** General Mathematics

[35] **viXra:1512.0008** *submitted on 2015-12-02 00:45:31*, (9 unique-IP downloads)

**Universal Aspect Recursion Scheme {Version 1 }**

**Authors:** Ramesh Chandra Bagadi
**Category:** General Mathematics

[34] **viXra:1511.0238** *submitted on 2015-11-25 02:01:26*, (29 unique-IP downloads)

**Your Good Nature Is Your Real Wealth**

**Authors:** Ramesh Chandra Bagadi
**Category:** General Mathematics

[33] **viXra:1511.0228** *submitted on 2015-11-24 03:22:04*, (13 unique-IP downloads)

**Relativistic Transformations In Standard Prime Metric And/ Or Corresponding Reverse Direction Prime Metric Within Some Selected Domains Of Complementable Bounds**

**Authors:** Ramesh Chandra bagadi
**Category:** General Mathematics

[32] **viXra:1511.0213***submitted on 2015-11-22 02:25:25*, (15 unique-IP downloads)

**Fulfill Your Life (Version 4)**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[31] **viXra:1511.0203***submitted on 2015-11-21 08:34:25*, (13 unique-IP downloads)

**Evolution Through Quantization (Version III)**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[30] **viXra:1511.0190***submitted on 2015-11-20 09:00:08*, (11 unique-IP downloads)

**Rth Order Space Sequence Of Primes Based Prime Metric Algebra**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[29] **viXra:1511.0133***submitted on 2015-11-16 09:18:35*, (28 unique-IP downloads)

**Universal Recursive Tessellation Based Scheme To Derive The Evolution Scheme Of Any Aspect Set Of Concern {Evolution Through Quantization (Version Two)}**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[28] **viXra:1511.0120***submitted on 2015-11-15 00:38:50*, (27 unique-IP downloads)

**Living A Happy Life (Version II)**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[27] **viXra:1511.0119***submitted on 2015-11-15 00:50:41*, (30 unique-IP downloads)

**Living A Happy Life (Version III)**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[26] **viXra:1511.0109***submitted on 2015-11-13 01:56:51*, (36 unique-IP downloads)

**Living A Happy Life**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[25] **viXra:1511.0054***submitted on 2015-11-05 23:38:35*, (40 unique-IP downloads)

**Universal Recursive Algoritmic Scheme For The Generation Of Sequence Of Prime Numbers (Of 2nd Order Space)**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[24] **viXra:1510.0514***submitted on 2015-10-31 02:09:22*, (40 unique-IP downloads)

**Fulfill Your Life {Version 3}**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[23] **viXra:1510.0474***submitted on 2015-10-29 03:13:43*, (13 unique-IP downloads)

**Recursion Scheme Of The Sequence Of Primes {Of Second (2nd) Order Space}**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[22] **viXra:1510.0428***submitted on 2015-10-27 23:43:58*, (16 unique-IP downloads)

**Theory Of 'Complementable Bounds' And 'Universe(s) In Parallel' Of Any Sequence Of Primes Of RthOrder Space**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[21] **viXra:1510.0427***submitted on 2015-10-28 00:10:14*, (18 unique-IP downloads)

**The SynonymityBetween The Five Elements Of (At) Planet Earth And The Five Digits Of Human Palm**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[20] **viXra:1510.0395***submitted on 2015-10-26 07:10:54*, (7 unique-IP downloads)

**Genuinity Validation Of Any 'Original Work Consciousness Of Concern' And Decorrupting 'Corrupted Original Work Consciousness'**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[19] **viXra:1510.0391***submitted on 2015-10-26 02:45:01*, (8 unique-IP downloads)

**Musical Life (Version II)**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[18] **viXra:1510.0384***submitted on 2015-10-25 03:55:36*, (15 unique-IP downloads)

**Musical Life**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[17] **viXra:1510.0378***submitted on 2015-10-24 05:42:13*, (22 unique-IP downloads)

**The Universal Wave Function Of The Universe (Verbose Form)**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[16] **viXra:1510.0353***submitted on 2015-10-22 10:45:14*, (19 unique-IP downloads)

**Fulfill Your Life (Version 2)**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[15] **viXra:1510.0342***submitted on 2015-10-21 04:52:09*, (16 unique-IP downloads)

**Fulfill Your Life**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[14] **viXra:1510.0327***submitted on 2015-10-19 05:30:35*, (9 unique-IP downloads)

**Quantized Variable Dimensional Equivalents Of Any Technology Of Concern : An Example Of The (William F. Baker)'s Buttressed Core Design Concept**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[13] **viXra:1510.0144***submitted on 2015-10-17 08:12:44*, (9 unique-IP downloads)

**Evolution Through Quantization**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[12] **viXra:1510.0130***submitted on 2015-10-15 04:14:17*, (17 unique-IP downloads)

**Time Evolution Juxtaposition Of The Observables Based Dirac Type Commutator And The Consequential Wave Equation Of Photon**

**Authors:**Ramesh Chandra Bagadi
**Category:**Mathematical Physics

[11] **viXra:1510.0126***submitted on 2015-10-15 02:57:46*, (15 unique-IP downloads)

**A Condition For The Suspension Of Gravitational Field**

**Authors:**Ramesh Chandra Bagadi
**Category:**Classical Physics

[10] **viXra:1510.0117***submitted on 2015-10-14 05:10:20*, (21 unique-IP downloads)

**Some Basic Definitions Of Fractional Calculus**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[9] **viXra:1510.0096***submitted on 2015-10-12 09:07:32*, (14 unique-IP downloads)

**Universal Recursive Crossing Science Of Genetic Kind**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[8] **viXra:1510.0091***submitted on 2015-10-11 06:46:45*, (12 unique-IP downloads)

**Recursive Consecutive Element Differential Of Prime Sequence (And/ Or Prime Sequences In Higher Order Spaces) Based Instantaneous Cumulative Imaging Of Any Set Of Concern**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

[7] **viXra:1510.0059** *submitted on 2015-10-06 12:19:37*, (14 unique-IP downloads)

**Complete Recursive Subsets Of Any Set Of Concern And/ Or Orthogonal Universes In Parallel Of Any Set Of Concern In Completeness (Version II)**

**Authors:** Ramesh Chandra Bagadi
**Category:** General Mathematics

[6] **viXra:1510.0054** *submitted on 2015-10-05 11:09:22*, (17 unique-IP downloads)

**All You Need to Know About Euclidean and Euclidean Type Inner Product Scheme**

**Authors:** Ramesh Chandra Bagadi
**Category:** General Mathematics

[5] **viXra:1510.0031** *submitted on 2015-10-04 06:33:00*, (14 unique-IP downloads)

**Complete Recursive Subsets Of Any Set Of Concern And/ Or Orthogonal Universes In Parallel Of Any Set Of Concern In Completeness**

**Authors:** Ramesh Chandra Bagadi
**Category:** General Mathematics

[4] **viXra:1510.0030** *submitted on 2015-10-03 12:59:02*, (13 unique-IP downloads)

**Universal One Step Natural Evolution And/ Or Growth Scheme Of Any Set Of Concern And Consequential Evolution Quantization Based Recursion Scheme Characteristically Representing Such Aforementioned Evolution And/ Or Growth**

**Authors:** Ramesh Chandra Bagadi
**Category:** General Mathematics

[3] **viXra:1510.0006** *submitted on 2015-10-02 03:08:21*, (20 unique-IP downloads)

**Universal Natural Recursion Schemes OfRth Order Space**

**Authors:** Ramesh Chandra Bagadi
**Category:** General Mathematics

[2] **viXra:1509.0291** *submitted on 2015-09-30 07:47:28*, (19 unique-IP downloads)

**The Prime Sequence's (Of Higher Order Space's) Generating Algorithm**

**Authors:** Ramesh Chandra Bagadi
**Category:** General Mathematics

[1] **viXra:1502.0100** *submitted on 2015-02-14 03:41:23*, (49 unique-IP downloads)

**The Prime Sequence Generating Algorithm**

**Authors:**Ramesh Chandra Bagadi
**Category:**General Mathematics

**OTHER PUBLICATIONS**

- "Quantification Of The Criterion For Corrosion Onset"" pp (1277-1284) Corrosion and Its Control: Proceedings of International Conference on Corrosion CORCON '97 A NACE International Conference, Nehru Centre, Mumbai, India, 3-6 December 1997, Elsevier Science Ltd Publishers, Vol. II, (1997) pp. 1067-1073, ISBN 13: 9780444829160ISBN 10: 0444829164

- "Corrosion Of Galvanized Reinforcement Bars Due To An Electrothermodynamic Parameter: Pyroelectricity" pp (238-242) Proceedings of "International Conference on Maintenance and Durability of Concrete Structures: March 4 - 6, 1997", Hyderabad, India.ISBN 8173710686, ISBN 9788173710681.

**arXiv Publications at** http://www.arxiv.org/abs/1009.3809v1**Cornell University Library**
**arXiv.org>cs> arXiv:1009.3809v1**
**Computer Science > Data Structures and Algorithms**

- **One, Two, Three and N Dimensional String Search Algorithms**

Ramesh C. Bagadi
(Submitted on 20 Sep 2010)

***Acknowledgements***

*The author would like to express his deepest gratitude to all the members of his loving family, respectable teachers, en-dear-able friends, inspiring Social Figures, highly esteemed Professors, reverence deserving Deities that have deeply contributed in the formation of the necessary scientific temperament and the social and personal outlook of the author that has resulted in the conception, preparation and authoring of this research manuscript document.*

***Tribute***

*The author pays his sincere tribute to all those dedicated and sincere folk of academia, industry and elsewhere who have sacrificed a lot of their structured leisure time and have painstakingly authored treatises on Science, Engineering, Mathematics, Art and Philosophy covering all the developments from time immemorial until then, in their supreme works. It is standing on such treasure of foundation of knowledge, aided with an iota of personal god-gifted creativity that the author bases his foray of wild excursions into the understanding of natural phenomenon and forms new premises and scientifically surmises plausible laws. The author strongly reiterates his sense of gratitude and infinite indebtedness to all such '**Philosophical Statesmen**' that are evergreen personal librarians of Science, Art, Mathematics and Philosophy.*