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Card C00001

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Card C00002

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See Mite (Minimum Tetrahedron)

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Card C00003

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A_& B Quanta Modules:

See Modules: A & B Quanta Modules

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Card C00004

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ABC's:

See Education (2)

Letters of the Alphabet, Jun'66

Artist, Jun'66

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Card C00005

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RBF DEFINITIONS

Aberrating:

"Human beings do not live at perfection, they do not live at sero-- we are always aberrating."

= Citation & context at Thinking, (II), 23 Jun'75

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Card C00006

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RBF DEFINITIONS

"Only the tetrahedron can accommodate the otherness which is the aberration, otherness being essential to awareness

ond awareness being the minimum statement of the experience ife.

~ Citation & context at Tetrahedron as Primitively Central To

Life, 3 Mar'77

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Card C00007

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RbF DEFINITIONS

Aberration:

"There will always ba at least one other critical proximity-imposing aberration restraint focus."

- Cite SYNERGETICS text at Sec. 1009.54; galley rewrite 19 Dec'73

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Card C00008

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RBF DEFINITIONS

Aberra

"Human apprehending demonstrates a large assortment of lags in rates of cognitions whose myriadly multivaried frequencies of myriadly multivaried, positive-negative omnidirectional

aberrations, im multivaried degrees... produce elusive off-center effects."

(Synergetics : 601,13)

~ Citation and context at Apprehending, 22 Nov'73

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Card C00009

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RBF DEFINITIONS

"Orbits are all elliptical due to the fact that Busty is plural and at minimum two. There will always be at least one other critical proxamity aberration with both of ite diametric alterations of orbit."

(Synergetics: 1009.54)

- Citation and context at Field, 14 Feb'73

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Card C00010

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REF DEFINITIONS

"See the 15° between the 45° and 60°. . . .

'Ye had 79 spherical excess. It could be that the two of them add up to 15° . . . Approximately? This could be the maximum possible aberration,"

- Cite RBF to EJA, Beverly Hotel, NY, 22 Jun'72

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Card C00011

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Aberration Limit:

See Asymmetric Limits

Catalog of Alternate Transformative Options

Rotational Aberrating Limit

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Card C00012

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See Orbits Are Elliptical

Rotational Aberrating Limit

Wave~Frequency Aberrations

Principle vs. Aberration

Skew-aberrated

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Card C00013

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Aberration: Aberrating: (2)

See

Human Beings & Complex Universe, (15)

Apprehending, 22 Nov'73*

Cheese Tetrahedron, 20 Jan'75

Field, 14 Feb'73*

Frame of Reference, 4 Oct'72

Individuality & Degrees of Freedom, (2)

Intereffects, 23 Sep'73

Lag, 21 Jant 95

Life, 23 May'72

Omnirational Control Matrix, 12 May'75

Perception, 6 Apr'75

Physical Reglity, & Nov'73

Positive & Negative: Four Kinds, 10 Nov'7h

Sixty Degreeness, 16 Dec'73

Spheric Domains, 6 Nov'72

Tetrahedron, 10 Dec'73

Thinking, Cir %

Zerophase, (1

Time is Only Now, 19 Jul'76

Tetrahedron as Primitively Central to Life,
3 Mart 77*

Human Beings at the Center, (1)

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Card C00014

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Abhorrence:

See Nonstate, 11 oh

Vacuum, 11 Sep!

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Card C00015

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RBF DEFINITIONS

A=Bomb: Souye: A-B :

"You can now buy a souvenir A-bomb, It makes a flash,

@ bang, and produces a mushroom cloud of smoke, It's

made in Japan, of course."

- Cite I SEEM TO BE A VERB, Queen, May '70 (Not in Bantam edition)

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Card C00016

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RBF DEFINITIONS

"A foetus is just physical life, a bundle of reflexes like a chicken running around with its head cut off.

"Consciousness and identity begin not with conception but with birth. Awareness, that's the thing!... That's what begins with birth.

wither the Catholic Church survives or fails, depends on whether it can make this philosophic recognition."

~ Citation at Life Is Not Physical, 13 Jul'74

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Card C00017

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RBF DEFINITIONS

Abortion:

"Without otherness there is no consciousness and no direction. If there were only one entity-- say it is a sphere called 'me'-- there would be no Universe: no otherness: no Awareness..."

- Citation & context at Otherness, 26 May'72

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Card C00018

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See Life is Not Physical, 13 Jul'74*
Otherness, 28 May'72*
Woman is Continuous, 11 Aug'77

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Card C00019

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shove & Below:

KY LT "
oe *out" as the Containing & the Contained, 5 May'74

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Card C00020

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RBF DEFINITIONS

"When people talk about 'absolute' they always mean

something physical-- the way they say 'an absolute gem!'"

(In response to query from EJA: why isn't 'absolute' metaphysical?)

~ Cite RBF to EJA, 3200 Idaho, Washington De, 22 Jan '72,

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Card C00021

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REF DeFINITIONS

Absolute:

"There appears to be an absolute of the acceleration tigard the speed of light and a slowdown toward eternity."

- Citation and context at Eternal Slowdown (2), 1970

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Card C00022

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KBF Ue INITIUNS

Absolutes:

", « » There are no 'absolutes!

--_No 'ends' in themselves-- no 'things'--

Only transitionally transformative verbing."

- Cite HOW LITTLE, p. 52. Oct '66

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Card C00023

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RBF DLFENITIONS

Absolute:

"The absolute would be

Nontransformable, Sstatic, and weighable,

Ergo, experimentally meaningless."

- Cite H0d LITTLE I KNOW, Oct. '66, pe 59.

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Card C00024

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a 3

See Spaceship Earth, 21 Jan'77

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Card C00025

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Absolute = Center:

See Lag, 21 Jan'75

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Card C00026

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Avaolute Contraction:

See Vector Equilibrium, (1)

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Card C00027

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See Time vs. Energy,

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Card C00028

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See Vector Equilibrium, (1)

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Card C00029

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See God, 10 Feb'73

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Card C00030

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See Heat vs. Zero

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Card C00031

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RSF DEFINITIONS

"Experience is al) temporary. Between experiences is the ever eternal metaphysical, which cannot be converted into existent. Zerophase, i.0.,

the absolute integrity, is a metaphysical potential in pure principle bu

8 erently inactive."

~ Citation and context at Zerophase, 4 Nov'73

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Card C00032

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Absolute Integrity:

See Design, & Sep'75

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Card C00033

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Absolute I 3

See Einstein: Unified Field Theory, 37 Jan'75

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Card C00034

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See A Priori Mystery
Integr ity
Mystery

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Card C00035

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See Fireworks (3)
Omniinteraccommodation, May'72
Science, 1972

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Card C00036

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RBF DEFINITIONS

"The tetrahedral and vector equilibrium models in the isotropic vector matrix provide an abgolute accommodation network of energy articulation, including the differentiated proclivities of... together with the integrated synergetic proclivities of... together with the intertransformative behavioral phases... and the mensurabilities elucidating the disciplines of..."

explorations for comprehensive rational-number constants."

= Cite SYNEKGETICS, 2nd, Ed. at Sec. 201.11, 10 Nov'74

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Card C00037

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See Isotropic Vector Matrix

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Card C00038

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See Eternal Universe & Physical Universe, May '72
Hammering Sheet Metal, (1)

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Card C00039

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RBF DEFINITIONS

Absolute Relationship:

"Dimension may be universally and infinitely altered
without altering the absolute relationship of the
system,"

- Cte SYNRRGRTICS Coro rbarien, "Se, 2h 0.0 Fst
- Citation at Dimension, Oct '5y

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Card C00040

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See Inertia, 20 Dect71; 6 Nov '73

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Card C00041

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See Absolute Velocity
Terminal Speed
Top Speed: Top Velocity

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Card C00042

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Absolute Symmetry:

See Scenario vs, Absolute Symmetry

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Card C00043

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Abnolute Threshold:

See Critical Proximity Threshold, 19 Jun '71

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Card C00044

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Absolute Time:

See Time ve. Energy, Dec'40

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Card C00045

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RBF DEFINITIONS

"The significance of Einstein's electromagnetic radiation's

top speed unfettered in vacuo is that there is a cosmic limit accommodation point of complete regeneration by which Universe is the only and minimum perpetually self-regenerative system."

(Original context at Wow: The Last Wow (B)(C))

- Cite RBF rewrite of SYNERGETICS galley at Sec. 334, 30 Oct'73

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Card C00046

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RBF DeFINITIONS

"The apparently different velocities, or rates of acceleration, of which the physicist speaks do not truly exist. . « « Velocity is always 186,000 miles per second."

- Citation and context at Shunting: Relative Motion Patterns, (1), 1955

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Card C00047

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Absolute Velocity:

See Acceleration (Absolute Velocity)

All-acceleration Universe

Charts: Rotate Our Charts 90 Degrees

Dynamic Equilibrium

Energy Slower than Intellect

Eternity: Equation of Eternity

Intellect Seconds

Intellect: Speed Of

Minimum Lag

No Change

No Speed

Norm of Einstein as Absolute Speed
Radiation: Speed Of

Terminal Speed

Top Speed: Top Velocity

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Card C00048

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Absolute Velocity:

See Eternal, 7 Nov '73
Intuition, 27 May '72
Omnipotence, 197
Relative Motion Patterns (1)*
Wow: The Last Wow, (B)(C)*
Zero, 19 Jult71
Eyes, 1964

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Card C00049

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See Conceptual Totality, May '72

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Card C00050

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TEXT CITATIONS

Absolute Zero:

205,02

251,02

427,01

443 02

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Card C00051

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Absolute Zerg:

See Heat vs. Zero
Zero Energy

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Card C00052

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See Vector Equilibrium: Field of Energy, (B)
Water, 7 Nov'75

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Card C00053

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See Cold Valve of Absolute Time
Cosmic Absolutes
Dead Center of Universe
Exact
Hot Valve of Absolute Energy
Limit
Limit Case

No Absolutes

Number: Cosmically Absolute Numbers
Pure Principle

Pure Science Events

Ultimate

Minimum Limit Case
Zerophase

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Card C00054

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Absolute:

See

Angular Fractionation, 25 Sep'72
Equiangularity, 25 Sep'72
Eternal Slowdown, (2)*

Pattern Cognizance, 20 Dec'71
Science, 1947

Truth, Sant 72

Twilight 2908 5 22 Jun'75

Principle, 6 Apr'75
Regular = Uniangular, 11 Dec'75

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Card C00055

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See Absolute Admirals

Absolute = Center
Absolute Contraction
Absolute Energy
Absolute Expansion
Absolute Generalizability
Absolute Heat
Absolute Integrity
Absolute Kystery
Absolute Network

Absolute Order
Absolute Helationship
Absolute Speed
Absolute Threshold
Absolute Time
Absolute Velocity

Absolute Wisdom
Absolute Zero
Absolute Silence
Absolute Symmetry

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Card C00056

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RBF DEFINITIONS

Abstraction:

"Complete abstraction is a formidable force,"

- Citation & context at Design Science & World Game (B), 28 Apr'74

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Card C00057

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RBF DEFINITIONS

Abstraction:

"What the mathematicians have been calling abstraction

is reality. When they are inadequate in their abstraction
then they are irrelevant to reality. The mathematicians

feel they can do anything they want with their abstraction
because they don't relate it to reality, And, of course,
they can really do anything they want with their abstractions
but, like masturbation, it is irrelevant to the propagation
of life.

"The only reality is the abstraction of the principles, the

eternal generalized principles. . . Most people talk of reality as just the after-image effects-- the realization lags, which register superficially and are asymmetric and off center. (The principles themselves have different lag rates and different interferences.) 'hen we get to reality it's absolutely eternal."

"The inherent inaccuracy is what people call the reality. Man's way of apprehending is always slow: ergo the superficial and erroneous impressions of solids and things, which can actually be explained only in principle."

~ Cite RBF to EJA, 3200 Idaho, 24 Feb '72
incorporated in SYNiHULTICS at Sec. 220.10, 15 Nov '72

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Card C00058

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RBF DEFINITIONS

"abstraction means a pattern relationship independent of size. Shape being independent of size is abstractable."

= Cite SYNKRGKTICS, "Corolliaries," Sec. 240.57. 1971

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Card C00059

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RBF DEFINITIONS

"Abstractions may be stated in pure principle of relationship."
"abstractions are conceptually shapable!"

"different shapes, ergo different abstractions, are nonsimultaneous; but all shapes are de-finite components of integral though nonsimultaneous, ergo shapeless, Universe."

= Cite SYNEXKURTICS, "Corollaries," Secs. 240.58, 89, + 60. 1971

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Card C00060

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RBF DEFINITIONS

Abstraction:

"Vectors are not abstractions: they are resolutions,"

(Synergeticsa: yo2.40)

~~ Citation at Vector, 21 Dec'71

- Chee RBF-t0-EIK,- 3200 -tdaho, Washington BC>-2T fecz- 174,

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Card C00061

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RBF DEFINITIONS

Abstra on:

"The imaginary 'abstraction' was so logical, valid and obvious in the pre-instrumental history of man that the mathematician assumed it was absolutely devoid of

experience: he began with oversight."

- Cite RBF to EJA, Somerset Club, Boston, 22 April 1971

CANCER TUAUTY~ EXPERIEWe ~ SEC, 502.3)

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Card C00062

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RBF DEFINITIONS

"We cannot suggest that an abstraction could have a beginning and an end"

- Citation and context at Beginnings & Endings, Jun'69

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Card C00063

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RBF DEFINITIONS

"...The negative weights are balanced by positive weights. The average of all the weights is therefore zero. This has extraordinary implications. We are dealing in a Universe of pure intellectual abstraction."

- Citation and context at Complementarity, Spring'66

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Card C00064

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RBF DEFINITIONS

Abstraction:

"By abstraction I mean an idealized empty-set, first-

degree generalized statement such as one of my own
"Let's take a piece of gore and tense it." This refers
to any rope and is a first degree generalization."

{N.B. This same context appears in HOW LITTLE I KNOW,
pp. 28-29, Oct. 1966)

- Cite THE MUSIC IN THE NEW LIFE, U or 0, p.1h, 10 Doc'6h

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Card C00065

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RBF DEFINITIONS

Abstractions:

"Only the old-time New Yorkers can know the great transforming dynamics and, more importantly, the city's myriad of rich abstract resources. Because pure abstractions such as love, hate, happiness, and inspiration are as invisible as they are nonmerchandisable, all the real meaning of New York is both invisible and nonmarketed."

~ Citation & context at New York City, (8); 1964

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Card C00066

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RBF DEFINITIONS

Abstraction:

"Abstraction means pattern relationship independent of size. Shape the independent of size is abstractable. tw

"Abstractions may be stated in pure principle of relationship.

"Abstractions are conceptually shapable."

= Cite COLLIER'S , ps 115, Oct'59

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Card C00067

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RBF DEFINITIONS

Abstraction:

"Abstraction has no pattern."

- Cite RBF marginalis in "Mathematics in Action," by O.G, Sutton. = 1955,

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Card C00068

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RBF DEFINITIONS

"All progressions are from material to abstract..."

- Citation and context at Ephemeralization, 1938

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Card C00069

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RBF DEFINITIONS

"Abstract thought dies with the thinker, but the mechanism was building for a long time..."

- Citation and context at

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Card C00070

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RBF DEFINITIONS

Abstraction:

"There are no number 'abstractions.' There are pattern abstractions, 'What is abstracted is the residual generalized pattern,"

- Citation and context at Number Pattern, Raleigh, NC, undated

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Card C00071

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See Mathematics, 18 Apr'63

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Card C00072

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Abstraction ve. Resolution:

See Vector, 21 Dec'71

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Card C00073

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Abstract ya, Sensorial:

See Reality as Structural Interaction of Principles, 1963

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Card C00074

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See Vector, 26 May'72

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Card C00075

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Abstract:

Abstraction:

See Centers of Abstract Truths

Changeless

Cipher

City as Center of Abstract Intercourse
Conceptuality Independent of Size & Time
Empty Set

Mathematical Symbols

Metaphysical

Modelability of an Abstraction

Novent

Timeless

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Card C00076

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Abstract: Abstraction:

See Advertizing, 1964

Aesthetics of Uniformity, (3)

Angle, 1938

Beginnings & Endings, Jun'6y*

Chord, 20 Feb'73

Complementarity, Spring'66*

Design Science & World Game, (B)*

Ephemeralization, 1938*

Eternal Principles, 22 Nov! 73

Etymology, Aug'71

Experiential Mathematics, 15 Oct '76
Generalized Principle, (8); Kay '68; 22 Jun '75
God, 7 Nov '75
Humans, May '4gy
Intertransforms, 11 Sep '75
Invention, 1938*
Joyce, James, 1965
Line, 1938
Mathematics, 1965
Kew York City (8); 1964%
Measurement Trenda, 1938
Now Kecessity, 1C Jan '50

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Card C00077

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Abstract: Abstraction:

See Number Patterns, undated*
Platonic Solids, 12 Jul '62
Principle, Junt69; (2)
Relationships, 1960
Shape, Oct '59
Teleology, (1)

Universe (p.131) 1960
Vector, 21 Dec '71*
Yiave, 0 Nov '73
Infinite, 15 Oct '72

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Card C00078

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Abstract: Abstraction:

See Abstract vs. Energetic
Abstraction vs. Resolution
Abstract vs. Sensorial
Abstraction of a Special Case

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Card C00079

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RBF DEFINITIONS

Absurd:

"Eddington's generalised science could look with equal validity for less economical orders, Thus was Boolean Algebra discovered by deliberate employment of the absurd, i.e., the nonexperience which would mean the deliberately noneconomical, Reductio ad

Absurdum is often a powerful tool of scientific exploration."

- Citation & context at Environment, Events Hierarchy (6), Jun'66

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Card C00080

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See Reductio ad Absurdum

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Card C00081

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See Boole, 1970

Environment Events Hierarchy, Jun'66*

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Card C00082

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Abundance:

See Constant Relative Abundance

Coordinate Abundance Ratios

Plenitude

Relative Abundance

Interabundance

Topological Abundance

Enough to Go Around

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Card C00083

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Abundance:

See Life, 22 Apr'68

Fighting, 7 Nov'67

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Card C00084

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ABF DEFINITIONS

"You say it was my ambition to integrate the disciplines in one grand system, I did not have any ambition about it. I simply assumed that Universe operates in an integrated way--and you can't understand it by isolating any of it or taking it apart."

= Cite RBF to EJA, 32 00 Idaho, Wash, DC; 11 Aug! 76

Incorporated in COSMIC FISHING: MS. p. 11 - 4.

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Card C00085

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See Self-discipline
Professors, Jun?

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Card C00086

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See Tenure

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Card C00087

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RBF DEFINITIONS

Accelera :

"...de must recall that what man has been calling "'lineart is simply big orbit seemingly escaping at 90° from local orbit. There are only two kinds of acceleration: greater and lesser, with the lesser being like the radius of the nucleus of an atom in respect to the diameter of its electron shell."

- Citation & context at

Proximity, (3), 29 Dec'73

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Card C00088

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RBF DEFINITIONS

Acceleration:

"... Angular accelerations are in finite package impelments which are chordal (not arcs)..."

- Citation and context at Hexagon, Nov'71

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Card C00089

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RBF DeFINITICNS

Acceleration:

"The metaphysical works toward the eternal slowdown and becomes steadier, the physical alone accelerates and is

fast. It is really only the destructive or negative things that accelerate, Popular music is getting more and more noisy, raising more and more of a row; it is purely physical. Heta physical is in exactly the opposite direction."

- Cite RSP Preface for francis kinins -pe- oS
= Citation and context at Eterna] Slowdown (3), circa 1970

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Card C00090

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RBF DEFINITIONS

A Accelerat

"The concept of accelerating acceleration was discovered by Galileo and later identified with gravity by Newton."

~ Cite UTOPIA OR OBLIVION, p. 3
(Citizen of the 218t. Cent.)
1 Apr'67

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Card C00091

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See Antientropy, 20 Jun'66
Moment: Momentum, 22 Jun'72
Improvement, May'49

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Card C00092

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RBF DEFINITIONS

v i E al _S :

"There appears to be an absolute of the acceleration toward the speed of light and a slowdown toward eternity."

- Citation and context at Eternal Slowdown (2), 1970

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Card C00093

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Asceloration (Absolute Velocity) & Eternal Slowdown:

See Expanding Physical Universe va. Contracting Metaphysical niverse

Syntropy & Entropy

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Card C00094

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ALF De FINIT IONS

"Release from angular acceleration appears to be linear acceleration but the linearity is only theoretical. Linear acceleration is the release from the restraint of the nearest accelerator over to the angularly accelerative or decelerative restraint of the integrated vectorial resultant of all the neighborly dominant forever-otherness restraints in Universe. Linear acceleration never occurs because there is never innocence of otherness,"

- Citation & extent at Qyherness Restminte & Elliptical Orbits, (13, 20 Ma 75

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Card C00095

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RBF DeFINITIONS

Acceleration: Angular & Linear:

"Physics does not speak of motion; it speaks of acceleration. And physics has identified only two kinds of acceleration-- linear acceleration and angular acceleration. We are informed experientially that this is a misinterpretation of the data.

"There are indeed two kinds of acceleration but they are both angular. All accelerations are angular and cyclically complete. There are no open endings in Universe. Physics has discovered only waves and no straight lines.

"The angular accelerations, however, manifest a vast variety of radii. The differentiation of physics into linear and angular occurred when the humans involved failed to realize the diameter of the little circle is always a small arc of a vastly greater circle passing through it. The greater the radius the slower the total cyclic realization. There are no straight lines or 'linear infinities.' Realization of this is what Einstein spoke of as 'curved space,'"

- Cite SYMERCETICS draft at Sec. 1009.51,52,53, 14 Feb'73

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Card C00096

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RBF DEFINITIONS

Acceleration: Angular and Linear Acceleration:

"Angular and linear acceleration are discretely and describably identifiable with respect to one another and their intertransformability is precessionaly accomplished."

- Cite RBF to EJA, Pepper Tree Inn, Santa Barbara, 11 Feb*73

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Card C00097

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RBF DoF ini riIuns

Acceleration: Angular & Linear:

"Physics recognizes two, and only two, uniquely aifferentiable motion patterns:

(1) Ansular Acceleration: As when a weight on the end of a string is swung in a circular pattern around and above one's head; and

(2) Lunear acceleration: As when the string holding the weight in circular orbit is released and the weight flies a radial course directly away from

the weight' and string operator,

The angular acceleration is circumferential. Linear acceleration is radial in respect to the acceleration generating operator obeerver."

= Cite ABF 19 Feb '72 re-write of 17 Feb citation.

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Card C00098

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RBF DEFINITIONS

"The angular acceleration is really circumferential. The linear acceleration is radial."

- Cite RBF to EJA + BO'R, 3200 Idaho, Wash DC, 17 Feb'72

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Card C00099

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RBF DEFINITIONS

Accelera \$s: Angular & Linear:

"Angular accelerations are in finite package impel] mments

which are chordal (not arcs) and produce hexagons because

the average of all angular stabilizations from all

triangular interactions average at 60 degrees..."

- For citation and context see Pi, Nov '71

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Card C00100

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RBF DEFINITIONS

Acceleration: EI d_L; Acceleration:

In Synergetics there is a total "correspondence of radial wave modular growth with circumferential modular frequency growth of the totally involved vectorial

geometry." This means that * angular and linear accklerations are identical,"

- Cite Ltr. to Prof. Von Hochatetter,

- 18 Oct 1964, p. & and footnote.

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Card C00101

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RBF DEFINITIONS

Acceleration: Angular & Linear:(1)

"There is something else that I will draw for you now that is not in the pictures that I have shown to you and it has to do with the phenomenon I was talking to you about: the inside-outing of the tetrahedron, I spoke about the physicists having two ways of classifying the movements of the Universe, what they call acceleration.

"They have angulamr and linear acceleration. The angular accelerations go around like this while they are restrained

from a common center; and the linear, when you let go of it,

let go just like that. When we let go of a rocket we just see & point for a very few minutes. The it is outside and we put radar on it and we can tell where it is. We can only really do it in terms of the angular direction-- where it is going-- ana wacening oie &Loce suy: *1 know what it's velocity is; I know how far it is.!

"What we are doing is using a clock, which is an angular acceleration; and we say it went one minute, and two minutes, and so forth-- these are linear increments. What we call size are some kind of linear increments which you could treat in"

~ Cite Oregon Lecture #6, p.210, 10 Jul'62

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Card C00102

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RBF DEFINITIONS

Acceleration: Angular & Linear:

"terms of first and second power, You would not have a linear increment until the cycle was complete. We use some kind of cycle. It may be a cycle of atomic oscillation. Or it could be of a clock, But it is some kind of cycle, and until the cycle is complete you don't have an increment.

"Therefore we discover that in angular acceleration-- I started at six o'clock to play the game and I have only gone this far and I haven't made a cycle, and yet this is measurable.

"We find that an angle is subcyclic, We said there was no size until the cycle had been completed. We find an angle is @ priori of no size: it has nothing to do with the phenomena size, The length of the edges are the linears and have nothing to do with what this angle is. Angle has nothing to do with size.

"It was one of these qualities of the tetrahedron with the 60-degree, symmetry, and so forth, which was completely independent of size, I found this a very important discovery.

We see the tetrahedron turning inside-out, so now you know what

that one was about."

~ Cite Oregon Lecture #6, p. 211, 10 Jul'62

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Card C00103

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RBF UBF ANIL LUND

Accejeration: Angular and Linear Acceleration:

"In the inherently subjective language of physical transformation of an omni-interaltering and accelerating Universe there are only two fundamental kinds of observable transformational changes, i.e. angular, or subunity alterations, and linear, or plural unity (frequency modulated } accelerations. These subjectively viewed transformations of Yniverse are also objectively and locally controllable by man through designed angle and frequency modulations.

"In the Energetic/Synergetic Geometry's isotropic vectorially triangulated, omnidirectional matrix initiations the angular and linear accelerations are rationally and uniformly modujated, whereas, in the XYZ coordinate analysis of the quscuius only the linear is analyzable an@ the angular resultants are usually irrationally expressed."

~ Cite OMNIDIRECTIONAL HALO, p. 156 1960

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Card C00104

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See Hammer Throw
Radial-circumferential
Synchosystem

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Card C00105

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Acceleration: Angular & Linear:

See Energy Event, 9 Jul'62
Fourth Dimension, 1965
Hammer Throw, 11 Feb*73
Mass, 16 Now! 72
Pi, Nov'71#
Twelve Universal Degrees of Freedom (1)
Vector Equilibrium: Spheres & Spaces {1}(2)
XYZ Coordinate System, 1960

Movement, 10 Jul'62

Otherness Restraints & Elliptical Orbita, 20 May'75*

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Card C00106

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RBF DEFINITIONS

Acceleration of Change: (1)

"There is no longer valid dissent to the concept of accelerated change in the affairs of man on Earth. The average USA family now moves out of town every four years, My present official address for passport taxation combination is in Carbondale, southern Illinois, the sixth state in which I have had successive voting privileges. Whether I am in residence or not, my land,

my house, and I whirl constaantly around the Earth's axis together at about 800 miles per hour. All the while our little Spaceship Earth zooms around the Sun at 30,000 miles per hour, while at

the same time our solar system rotates in its nebular marry-ZO-round at hundreds of thousand of miles per hour.

"In all reality I have not left home, as it is usually said of me, hy backyard has just grown progressively bigger. Since now, the world is my backyard. Where do you live and what are you are progressively less sensible questions. As of now I am

a passenger on Spaceship karth, I don't know what Iam. I know I am not a category hybrid specialization. I am not a thing, anoun, You and I seem to be verbs in evolutionary process.

Are we not integral functions of the U,iverse?

"In 1917 in the U.S. Navy I had intuited that our intermulti-plicated acceleration of technical events was beginning and that"

~ kUF to B. Farrell; Bear Island; Tape 6A, p.15, 16 Aug'70

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Card C00107

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RBF DEFINITIONS

Acceleration of Change:

"would bring about a fundamental reorientation of human life

on the Universe. This concept of accelerating acceleration had been discovered by Galileo circa 1600 with respect to the first laws of motion. 'They were not conceived of, however, as accelerating ecological evolution up to the date of my intuiting and acting upon its arrival, Discussion of economic and evolutionary acceleration does not begin in the intellectual publications until more than a decade later. Nor did my 1922-27 discoveries that ever higher tool performance per units of pounds, time, and energy fallout from the weapons

industry into the domestic consumer economy, when erstwhile weaponry~support contractors sought to exploit their advanced technological position after their war goods contracts were terminated by progressive obsolescence. It was resulting in doing ever more with less, ever more with ever less in the domestic economy. This domestic economy thought only in terms of more security only to be accomplished with more weight.

"This reversal of affairs seemed to me to suggest that the Malthus dictum that only a few could survive, might be wrong. It seemed that it could come to pass that all humanity might"

~ RBF to B, Farrel; Bear Island, Tape 6A, p.16, 16 Aug '70

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Card C00108

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RBF DeFINITIONS

A er f Cha :

"become both physically and economically successful in the foreseeable future, I identified this progression of doing more with less as ephemeralization. Fortune magazine published my 1922 concept of ephemeralization in 1940 in a prominent manner. Despite ephemeralization having subsequently wrought epochal advancements in the standard of living for two billion previously deprived humans, ephemeralization is a fact that, in 1966, is largely unknown to or overlooked by the world's professional economists, Nonetheless the concept of accelerating acceleration and ephemeralization have now brought 40 percent of humanity into the paradoxical state of world success, ergo apprehensive physical and economic success,

"I decided in 1917 to contribute to the scientific documentation of the emergent realization of the era of accelerating accelera~

tion of progressive ephemeralization, I determined to do so by methodical and chronological inventorying of all the human communications in which I was personally involved, all mention concerning me transacted by others, I have kept this lifelong file, which I call the dymaxion chronofile... which consists sm of 250 volumes containing 80,000 letters, 300-400 pages per volume. The first important regenerative effect upon me of keeping this active chronological record was, I learned, to see myself as other see me."

- RBF to B.Farrel, Tape 6A, p.17, 16 Aug '70

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Card C00109

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RBF DEFINITIONS

Acceleration of Change:

"Speculation and initiative in the acceleration of change are alltime forces, and are as essential in the scheme of realism as suffrage and socialization of essentials and plenitudes."

- Citation and context at Technocracy, 1938

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Card C00110

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See Newton vs. Einstein (1)(2)
Future of Synergetics, 22 Apr '68

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Card C00111

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RBF DEFINITIONS

Acceleration & Deceleration:

"Angular acceleration is the local accumulation of momentum; angular deceleration is the local depletion of momentum."

- Citation & context at
lee gag ee ee

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Card C00112

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RBF DEFINITIONS

Acceleration & Deceleration:

"... Special case self-retransformings of physical evolution tend ever to accelerate, differentiate, and multiply... while self-remodifyings of generalised law conceptionings of meta-physical evolution tend ever to decelerate, simplify, consolidate and ultimately unify."

- Citation and context at Scenario Universe, 22 Apr'68

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Card C00113

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See Acceleration (ASsolute Velocity) & Eternal Slowdown

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Card C00114

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See Metaphysical and Physical, 22 Apr'68
Otherness Restraints & Elliptical Orbits, (2)*
Acceleration: Angular & Linear, 20 May'75

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Card C00115

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Accoleration: Direct ve. Indirect:

See Precession (b)

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Card C00116

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Accelerating: Acceleration:

See All-acceleration Universe

Deceleration

Feedback: Self-accelerating Feedback

Hammerthrow

Information Gaining: Acceleration Of
Interaction

Linear Acceleration

Omniaccelerating

Omninteraccelerating

Radial-circumferential Accelerations

Size: Angle, Acceleration & Cycle

No Linear Acceleration

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Card C00117

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Accelerating: Acceleration:

See Absoluce Velocity, 1955
Eternal Slowdown {2} (3)*
Hexagon, Nov'71*

Lags (1}(2)

Mass, 16 Nov'72

Physical, circa 1970
Resultant, 22 Jul'71
Scenario Universe, 22 Apr'68
Somethingness, 16 Nov'72
Synergetics, (p.j3) undated
Tidal, May'92

Wow {

Progressions, May'49
Periodic Experience, (8)
Modulations, 17 Jun'75

Womb of Permitted Ignorance, (2)

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Card C00118

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See Accelerating Acceleration
Acceleration (Absolute Velocity) & Eternal Slowdown
Acceleration: Angular & Linear
Acceleration of Change
Acceleration & Deceleration
Acceleration: Direct vs, Indirect

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Card C00119

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Accessory:

See Politics: Accessory After the Fact

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Card C00120

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RBF DEFINITIONS

Accidental Theatergoer:

"Is the human an accidental Lhesterkoer who happened in
on the 'play of life'--- to like it or not--- or does humanity

perform an essential function in Universe? We find the latter to be true."

- Citation and context at Identity, 20 Jun'66

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Card C00121

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Accidental Theatergoer:

See Drama: Earthian Drama "Life"

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Card C00122

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Accidental Theatergoer:

See Identity, 20 Jun'66«

Man as a Function of Universe, 22 Jul'71

World Game (3); Jun'6y

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Card C00123

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Accidental:

See Inadvertent

Surprise

Error

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Card C00124

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Accident: Accidental:

See Eternal Orderliness, 15 May'72

Fail-safe, 13 Sep'77

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Card C00125

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RBF DEFINITIONS

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"Only the tetrahedron can accommodate the otherness which is the aberration, otherness being essential to awareness and awareness being the minimum atatement of the iain al

~ Citation & context at Tetrahedron as Primitively Central To Life, 3 Nar'77

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Card C00126

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isk ULF IN ITIONS

Accommodation:

'Action and interaction of events are accompanied by relative displacements and accommodations of other events. For example, when a stone is dropped into a tank of water, the stone does not penetrate the water molecules, 'the molecules are jostled; they 'accommodate' the stone, and in the process jostle their neighboring molecules, which, in turn, jostle their own border companions, Thus waves of relayed jostling are propagated. such relayed wave, although a composite of local actions, provides a synergetic continuity of those actions. The consequence is a pattern of events which has an integrity of its own, indépendant of the local accommodations (which are innocent with respect to the overall synergetic pattern).... .

"The stone thrown into the tank inaugurates a complex of accommodative events operative in pure principle. , .

"when radio or television waves pass through the walls of a house, when light waves pass through a window or a lens, there are always some comprehensively relayed local jostlings,

some sets of submicroscopic eddies of force, that accommodate the push through... "

- Cite MARKS, p. 20, 1960 FinsT SEM rence - SEC S0S.0b

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Card C00127

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Accommodation: Accommodator:

See Absolute Network

Cosmic Limit Accommodation Point

Discontinuity Accommodation Model

Exchange Agent of Universe

Interaccommodation

Inter-insulator Accommodation

Inventory of Proclivities, Phases & Disciplines

Multidimensional Accommodation

Omniaccommodation

Tetrahedron: Dissimilar Rates of Change

Accommodation

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Card C00128

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Accommodation: Accommodator:

See pooezepte Vector Matrix, 9 Mar'73

Local Vector Equilibrium, 2 Nov'73

Tetrahedron, 10 Dec'73

Wealth, 28 Jan'75

Gravity: Speed Of, 21 Oct'72

Tetrahedron as Primitively Central to Life,

3 Mar'77*

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Card C00129

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See Cosmic Accounting

Deficit Accounting

Economic Accounting System

Energy Accounting

Epistemological Accounting

Frequency Accounting

Intertransformative Number-value Accounting

Life-hour Production

Mathematical Accounting

Metabolic Accounting

Mortgagization

Negative Accounting

Quantum Accounting

Resource Inadequacy

Scarcity

Synergetic Accounting Advantages: Hierarchy Of

Topological Accounting

Trial Balance Inventory

Cosmic vs. Terrestrial Accounting

Structural Accounting

Vertexial Accounting = Spherical Accounting

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Card C00130

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Accounting:

See Triangular Accounting va. Quadrangular Accounting

Know-how Accounting vs. Physical Accounting

Cubing: Cubic Accounting

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Card C00131

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Accounting:

See Synergetics, Oct'71

Artifacts, be Jan'75

Communications Hierarchy, (2)

Photosynthesis, 9 Jun'75

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Card C00132

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See Evolutionary Accumulation

Expansion-contraction System Accumulation Rates

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Card C00133

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See Flywheel

Celestial Radiation Accumulatora

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Card C00134

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Accuracy:

See Approximateness

Exactitude

Indeterminate

Measurement

Observation

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Card C00135

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Accuracy:

See Relativity, May'49

Truth as Progressive Diminution of Residual Error,

1 Feb'75

Life, 25 Mar'71

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Card C00136

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See Population Sequence, (3)

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Card C00137

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See Accidental Theatergoer

comedy & Tragedy of Errors

Play Acting

Drama: Bacthian Drama "Life"

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Card C00138

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Acting:

See Finite Event Scenario, (2)

Vector Equilibrium, 14 Dect 75

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Card C00139

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RBF vik InITIONS

Action:

"All actions are spirals because they cannot go through themselves and because there is time. 'the remote aspect

of a spiral is a wave because there are no planes."

- Citation & context at Spiral, 7 Mar'71

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Card C00140

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RBF DEFINITIONS

Action-peaction:

"While the human's actions are antientropic, his reactions

are entropic, ergo unpredictable."

+ Citation & context at Individuality, May'65

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Card C00141

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RoF DEFINITIONS

ActJon-reattion

"..eImproved designs" incorporate " all previous experience in action-reaction juxtapositions called structure and mechanics..."

- Citation & context at Improvement, May's9

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Card C00142

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Action-reaction: Equa) & Opposite:

See Future: Man Backs into His Future

Feedback

Structure & Mechanica

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Card C00143

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See Engineering, 13 Nov'69

Desovereignisation Sequence, (1)

Antipriority, 22 Jun! 5

Improvement, May'h9*

Individuality, hayt65*

No Opposites, 12 Nov'75

Surface Strength of Structures, Mar'72

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Card C00144

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RBF DEFINITIONS

A) S u, e

"The twelve universal degrees of freedom... occur as four

sets of three always interdependent and concurrent actiona, reactions, and resultants."

- Citation & context at Twelve Universal Degrees of Freedom, 12 Jun" 74

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Card C00145

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RBF DEFINITIONS

Action-reaction~regulant:

"Engineers have been proud of pointing out that the difference between engineers and lay society is that engineers know that every action has its reaction and that lay society thinks only of the actions. Before the speed of light wis measured, light seemed, to all humanity, to be instantaneous, Since we now

know experientially that neither light nor any other phenomenon is instantaneous, we may conclude that an action and the vectors it creates are neither simultaneously occurring nor instantaneous, Because vectors have discrete length, whose dimension represents the energy mass multiplied by its velocity, every action vector has two terminals-- a "beginning' and an ending' at the end of its noninstantaneous action, The beginnings and the endings are nonsimultaneously occurring, Therefore the 'ending' terminal of an action's vector occurs later than its 'beginning.' Therefore, every action must have a reaction vector at its 'beginning' terminal and a resultant vector at its 'ending'! terminal, The reaction vectors and the resultant vectors are never angled at 180 degrees to the action vectors, They are always angled precessarily at angles other than 180 degrees."

= Cite SYNERGETICS text at Sec, 511,22, May'71

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Card C00146

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RBF DEFINITLONS

A = = 3

*,e. Every action has not only a reaction, but also a nonsimultaneously, but immediately subsequent, resultant."

- Citation and context at kngeering, 13 Nov'69

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Card C00147

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RBF DEFINITIONS

A =rea -resu

One energy event demonstrates the action, reaction and resultant of the open ended triangular spiral. This is illustrated by a diagram of a man jumping from one boat to another, The action is the link between the reaction

and the resultant. (Adapted,)

- Citation at Energy Event, 1967

= CIE-S-SYNERSEPICS -ILEUSTRATION
Caption \$1967

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Card C00148

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RBF DEFINITIONS

A orea =: A

"Engineers are always talking about action and reaction, but they oversimplify. We have reaction and action but we also have resultants; and every event, then, is really a three-part affair," I find that the resultant and the reaction are never at 180 degrees, which is an approximate figure as there are always some odd angles."

"Reactions and resultants are always precessional."

~ Cite NASA Speech, p.53,52, Jun'66

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Card C00149

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RBF DEFINITLUNS

A pea. ~repulant:

". . . All patterns, for instance numbers or phonetic

letters consist of physical ingredients and physical experience recalls. 'the physical ingredients consist inherently of event-paired quanta and the latter's six-vectored, positive and negative, actions, reactions

and resultants. . ."

- Chl ipo pe

= Citation and context at Number, Jun'66

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Card C00150

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RKBF DeFINITIONS

Action-reaction--resu. 3

"The number of all the lines-- which is to say the number of all the vectors-- in liniverse, is always a number which is divisible by six. There are no exceptions. Now these six vectors are the six edges of the tetrahedron, which is the basic quantum unit, and consist as we have seen of two sets of three vectors each, each of which sets of three comprises one event, each event consisting always of action, reaction, and resulta "

- Citation at Quantum, Jun'66

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Card C00151

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RBF DEFINITIONS

A =P ea ~resltant >

Since "neither light nor any other phenomenon is

Cyaat

instantaneous, then an action and the vectoryit creates

is not instantaneous. Therfore the terminal end of an

action's vector occurs later.™ Therefore every action must have a reaction at its starting end and a resultant at its

terminal end." {Adapted.}

- Cite NASA Speech, p. 52, Jun'66

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Card C00152

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See Basic Event

Force Lines: Omnidirectional Lines of Force

Happening Patterns

Three-vector Teams

Tripartite

2 Cobras

Three-phase Vectors

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Card C00153

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(2)

See A Priori Environment, May'72

Chord, 20 Feb'73

Energy, 16 Sep'67

Energy Event, 19678; 9 Jul'62

Engineering, 13 Nov'69*

Life, 1 Jun'71

Minimum System, Oct '69

Morality Oct" b6

Now, 25 Apr'71

Number, Jun'66*

Precession, 8 Dec'72; Oct'6y

Quantum, Jun'66*

Structure, 25 Dec'68

Tetrahedron: Inside-outing Of, 16 Dee'73
Triangle, 1967; Nov'71
Twelve Universal Degrees of Freedom, 12 Jun'74*
Vector, har'71
Precession «© Degrees of Freedom, (1)
Star Event & Degrees of Freedom, 12 May'75

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Card C00154

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See Action-reaction-resultant
Alternatives of Action
Domain of Action
Fields of Actions
Man's Degrees of Freedom of Action
Reaction
Resultant
Twelve Alternate Options of Action
Z Cobras
Interaction: Interactions
Thought & Action

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Card C00155

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See Individuality, May'65*
Precession, 8 May'72
Sixty Degreeness, & Dec'72
Spiral, | Mar' 71

Synergetics Calculation, 1971

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Card C00156

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Activityinactivity:

See Zerophase, (1)

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Card C00157

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See Vector Equilibrium: Axes: 28 Jan'76
Time is Only Now, 1y Jul'76
Cosmic Hierarchy, 23 Jan'77
Awareness, 28 Apr'77

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Card C00158

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See Activity-inactivity

Operative
Potential va. Active
Potential vs, Primitive
Realization: Realized

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Card C00159

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Acute: Acuteness:

See Quantum Wave Phenomenon Sequence, (1)
Cloud Chamber, Now!71

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Card C00160

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ABF DEFINITIONS

"The physical is still in the saddle. At this critical moment of man on Earth evolution has quite clearly been at work in a very powerrul way trying to do things very much as with Adam and Eve,

"Adam and Eve didn't know that the consequences of what they were doing was going to be Cain at all, This is typical of the real surprises of evolution. She really has it all underwritten by the principles themselves, whether you and I know it or not; so she can have you born ignorant, finding your way, driven by our hunger and reproduction urge to mke mistakes and finally learn the big things... the principles... the circumferential and orbiting designs..."

- Cite tape transcript, p. 20; RBF to M. Wolf, Gloucester, Mass.,
2 Jun" 74

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Card C00161

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Adam & Eve:

See Atomic Bomb, Geb'72
Parable, Feb'72

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Card C00162

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See Berry Picking, (D)
Intellectual Perspective, 1 Jul'62

Human Design, 5 Jun'75

Human Mind & Physical Evolution, (1)=-(3)

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Card C00163

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RBF DEFINITIONS

"The additive twoness is axial."

- Cite RBF to W. Wolf, DSI Projeto, p.14, 2 Jun'74

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Card C00164

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RBF DéFINITIONS

Additive Twonesa:

*The number of surface points of the i hdeetay always multiplies at a secpnd-power rate of the frequency... times 10-- to the product of which is added the number 2 to account for the axtal rotation poles of the system, which twoness at

the relatively high megacycle frequencies of gmeral electromagnetic wave phenomena, becomes an undetectable addition."

+ Cite SYNERGETICS draft Sec, 223.74, 26 Sep'73

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Card C00165

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RBF DEFINITIONS

Additive Two:

"Polar vertexes extracted for neutral axis (synergetics separation of additive two to permit motion freedom from rest of Universe)."

- Cite revised caption to Col #11, "Table of Topological Hierarchied' at Sec. 223.66, 241 Mar'73

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Card C00166

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KbF DEFINITIONS

Additive Two:

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"Column 44 accounts the extraction of the polar vertexes. All systems have axes of spin. The axes have two poles.

Synergetics extracts two vertexes from all Euler topological formulas to function as the poles of the spin axis.

Synergetics speaks of these two polar vertexes as the additive two. It also permits polar coupling with other rotative systems, Therfore a motion system can have associability." 4A

- Cite SYNERGETICS at Table of topological hierarchies, Sec, 223,66, 21 Mar'73

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Card C00167

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KBF Unk INITIIONS

Additive Twoness:

"All systems have axes of spin. The axes have two poles. Synergetics extracts two vertexes from all Euler topological formulas to function as the poles of the spin axis, Synergetics speaks of these two polar vertexes as the additive two. It permits system differentiation from the balance of Universe. It also permits polar coupling with other rotative systems. Therefore a motion system can have

associability."

- Cite KBF dictation to EJA, 3200 Idaho, Was DCfor notes to "Synergetics Hierarchies" Column #16, 17 Feb *72

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Card C00168

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RBF DeFINITIONS

Additive Twoness:

"The additive twoness is one of the constants of relative abundance. The additive twoness derives from the polar vertexes of the neutral axis of spin.*

- Cite SYNERGETICS draft, June 1971.

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Card C00169

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RBF Ue FinITIUNS

Additive Twoness\$:

"Euler's formula 'twoness' is an abstract arithmetical 'accommodation,' and not an identification of neutral

axis excess of two factual polar spheres in each layer."

- Cite Ltr. to Dr. Robt. W. Horne, 14 Feb '66, p. 1

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Card C00170

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RBF DEFINITIONS

Additive Twoness:

"This number plus ia a very interesting kind of a number. The fact that it Ts second power and it is times ten: Does this fact bother yout Not particularly, because we will find out later what the times ten is. Ten is a number made up of two

primes, the prime numbers five and two. We will discover what its significance is, It has something to do with the fact that the vector equilibrium has twelve degrees of freedom, and we find that two of those degrees of freedom are always subject to being polarized... If you remember looking at the center core of the vector equilibrium system, you found six sets of lines

leading in, , making 12 radii going through the ceneter. We found twelve fundamental degrees of freedom, so one of the degrees of freedom could be used for spin, and if you do, then you automatically have to assign two of the balls out of the 12 for the problem of spin. We find that there are always in any layer two left over in that layer to act as bearings for the spin, They could be isolated from anything else this does energetically, You have to have something that takes care of the axis; and they take care of the neutral axis,"

~ Cite Oregon Lecture /7, pPe 241-242, 11 Jul*62

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Card C00171

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See Heavenly Twins

Synergetics Constants

Twonesa: Additive & Multiplicative

Unity as Two

Spin Twoness

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Card C00172

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See Axis of Spin, (5)

Constant Relative Abundance, 29 Nov'72

Gravitational Constant, (1){2)
Synergetics, 29 Nov'72
Periodic Table: Harmonics of 16, 22 May'75
Polarity, 12 Nov'75

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Card C00173

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Addreaa:

See feographical Identity

Local Identification

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Card C00174

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Addreas:

See Planet Earth, » 12 Feb'72
Verb: I Seem To Be a Verb, 16 Aug '70

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Card C00175

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Adenine:

See DNA-RNA

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Card C00176

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Adequacy:

See Nice, 29 Jul'76

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Card C00177

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Adherence: Adhering:

See Coalescing Adherence

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Card C00178

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Adherence: Adhering:

See Intereffects, 25 Sep'73

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Card C00179

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See Infinite, 15 Oct'72

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Card C00180

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See Omniadjacent

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Card C00181

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See Absolute Admirals

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Card C00182

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New _0; a

See Emergence by Emergency

Future: Man Backs into his Future

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Card C00183

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Adoption of the New Only as Last Resort:

See Dymaxion Artifacts, (2)

New, 28 Jan'75

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Card C00184

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Adult:

See Elders: That Doesn't Mean Young Don't Like their

Elders

Grownups

Older Generation: Old Life

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Card C00185

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Advance:

See Vacuumising the Advance

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Card C00186

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See Expense: Without Any Individual Profiting at the Expense of Another

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Card C00187

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See Adversity: Turn Adversity to Advantage
Dwelling Advantage
Energy Advantage
Group Advantage
Industrial Advantage
Interadvantage
Interexchange Advansage
Survival Advantage

Synergetic Advantage

Synergetic Accounting Advantages: Hierarchy Of
Vectorial Advantage
Vertexial Advantage

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Card C00188

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See Nine Chains to the Moon, 28 May '75

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Card C00189

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RBF DEFINITIONS

"Ignorance is the inherently diminishing negative residue, the obscuring mist of the receding mental wilderness progressively dissipated by igtellect, the inherent positive of Universe that may be inference of the record turn every adversity to ultimate advantage."

~ Citation and context at Ignorance (2), Mayt&9

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Card C00190

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Adversity: Jum Adversity to Advantage:

See Force: Don't Oppose Forces; Use Then Mistake

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Card C00191

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Adversity: Turn Adversity to Advantage:

See Fleet of Sailboats, May'49
Force, 1946
Ignorance, (2)*
Water, May'65

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Card C00192

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RBF DEFINITIONS

"Advertising's progressive squandering and ultimately lethal abuse and misuse of the rich word tools of the second millennium, Anno Domini's langauge wealth may be surprisingly one of those evolutionary 'bleesings in disguise' that man 4a not looking for and does not realise has come about to interrupt his stumbling into extinction and to set him again on the

path to successful fulfillment of humanity's functioning

in Universe, The assassination of the meanings in the twentieth century word wealth of humanity by the corporate-business advertising may be Tennyson's fulfiliment of

Himself by God 'in many ways, Lest one good custom (our honored vocabulary-~ vocable-ary) should corrupt the

world,'"

- Citation & context at World-around Language, 28 Apr'71

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Card C00193

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RBF DEFINITIONS

"...The abstract function of shaping men's conditioned reflexes... advertising."

- Citation & context at Madinon Avanue, 1964

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Card C00194

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RBF DEFINITIONS

"oe It is extravagant to employ the beginnings of a scientific breakthrough, which may be of the first order, for the sake

of pigueing the skier's curiosity. It would be easier to

satisfy the skier's psychological aloofness to a basketball
by painting the boards alternately gold, red, and black--~
Suggesting it is a royal outpost of the Czar's winter palace,
"Advertising men are prone to shoot your atomic warheads at
mosquitoes so that when atomic warfare comes-- all you have
left is DDT,"

= Cite CULTIVATE THE POSITIVE, 9 May '57

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Card C00195

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Advertising:

See Madison Avenue
Public Relations

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Card C00196

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See Beatnik, 1961
Madison Avenue, 1961*
News & Evolution, (1)
Politicians & Defense Budgets, 20 Sep '76
Technology: Enchantment vs. Bisenchantment, (4)(5)

World-around Language, 28 Apr '71*
Womb of Permitted Ignorance, (1)(2)

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Card C00197

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Aerodynamics:

See mak Structures, 22 Aug '70

Windmill (1

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Card C00198

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RBF D«FINITIONS

Aesthetic:

"The only aesthetic for tomorrow is integrity."

~ Citation & context at Axhitectural Schools, 1 Feb '75

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Card C00199

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RSF DEFINITIONS

Aesthetics:

"There have been lots of ideas about aesthetics. Superficial aesthetics and ofay aesthetiés. I'm really convinced that the great aesthetic of the coming moment is just integrity. That's all that will count. If it's not integrity it won't count:

it will have no beauty at all. The only thing that has beauty is the truth.... Integrity is more than the truth; it is the integration of the truth, a very comprehensive truth."

~ Cite transcript of RBF tape to Barry Farrel, Tape #2, Side B, p.5; Bear Island, 11 Aug'70

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Card C00200

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RBF DEFINITIONS

Agathatrica:

"Aesthetics are both subjective and objective. They're usually enjoyed subjectively and secondarily only as an accessory-after-the-fact, either of a human artist's or nature's harmonically complementary conception and realization. It is doubtful that any viewer or listener of, or to, an artist's work ever enjoyed that work as much as the artist enjoyed its original preaudience conception and realization."

~ Cite ARCHITECTURE AS ULTRA INVISIBLE BALITY, p. 160, Dec. '69

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Card C00201

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RBF DEFINITIONS

Aesthetics:

"Humanity experiences spontaneous . . . aesthetic pleasure

in the presence of an abundant reproduction of the essentials."

- Citation and context at Life, 22 Apr'68

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Card C00202

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RBF DEFINITIONS

Aesthetics:

"The "Expo 1967! environment valve... is the first time at a world's fair that a building was designed specifically for its scientifically demonstrable high performance per unit of invested weight, time, and energy. The ae: of such an undertaking take care of themselves.

fot an ounce of excess weight goes into the design, building, and outfitting of an Am@ricats Cup defender boat, but that boat's beauty, as with a rose or a human being, is inherent in the exquisite economy of an exactly adequate performance capability."

~ Cite RBF in Tel Aviv Address, December 1967. (Zodiac 19).

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Card C00203

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RBF DLFINITIONS

Aesthetics:

" [Geodesic dome architecture/ presents the first time in history that architecture has been presented exclusively in terms of efficiency of weight, energy and time units of resource investment. The aesthetics of such an undertaking take care of themselves, Not an ounce of weight goes into the design, building and outfitting of an America's Cup defender. That boat's beauty, as with a snowflake or a human being, is inherent in the exquisite economy of an exactly adequate performance capability."

(Adapted)

~ Cite WHAT QUALITY EXVIRONKEKT , 24 pers

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Card C00204

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RBF DcFINITIONS

"When a structure is finished, and I find myself unhappy looking at it, then I know that it is a failure. But up to the time my structures (of any kind) are finished, what they are going to look like has never been a tactical factor. My kind of work deals with the hows of mathematics,

the howa of industrial production and distribution and assembly and service and with how man finally finds out the ecological problems themselves and how to solve them hoping thereby to bring total success to all men at the earliest possible moment. I don't even consider how any structure that I am evolving is going to look, until after it is finished. If, finished, the structure seems beautiful, I know it is all right."

- Cite MEXICU, p. 94, 10 Oct '63

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Card C00205

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RBF DEFINITIONS

Aesthetics & Integrity:

"I have often pointed out on the platform that the aesthetic of the now world ie 'interify.'!"

"It is because 99.9 per cent of the new electromagnetic=

spectrum reality is invisible to humans" that the discovery of the laboratory is essentially aesthetic, but the motivation is

rarely a desire to create beauty. Reality is invisible to humans. So the visible aesthetics give way to the sense of design integrity of Universe."

= Cite REF marginalis at Cyril Stanley Smith article, NY Times, 24 Aug '75; done by RBF, Wash. DC, 8 Sep '75

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Card C00206

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Aesthetics & Integrity:

See Aesthetics, 1 Feb*75
Intuition, 11 Aug '70

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Card C00207

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RBF DEFINITIONS

Aesthetics of Uniformity: (1)

"I must caution you that you will be confronted constantly by the statement that mass production of houses eliminates the

aspect of individuality which is so cherished by humans and without which they are afraid they will lose the identity of their personality, therefore, mass production houses will never gain popular acceptance.

"My answer to that is that reproduction or regeneration of form is a fundamental of nature and that it is neither good nor bad in itself, However, reproduction of originally inadequate

or awkward forms, or poor mechanics or waste 'ul structures, either by the hand of man or by the regeneration of the biological species, tends to amplify the original characteristic. If the original is annoyings reproductions become increasingly

annoying; if the original is highly adequate to its designed purpose, reproductions become increasingly pleasing in the confirmation of adequacy. In the latter light, we continuously admire a fine species of cultivated rose or nature's wild-flowers-- the more frequently repeated, the more beautiful. Conversely, the more frequently we see a maimed soldier, the more disheartening becomes the repetition. There would be

even less virtue of the so-called individuality in the discovery*

= Cite DESIGNING A NEW INDUSTRY, (RBF Reader, p.218), 1946

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Card C00208

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RBF DEFINITIONS

Aesthetics of Uniformity: (2)

"of soldiers sons born with a half a face blown away, or with three legs.

"Individuality goes far deeper than these surface manifestations with which people have sought to deceive one another as to the relative importance of their status and in the bitter struggle to validate one's right to live, Those who were powerful but ugly and lazy paid for fine clothes and fine surface architecture, and a superstition has persisted that people who could afford to pay must be superior individuals, The powerful have

whipped the weak for centuries on end to instill that superstition. As long as might excelled over right that superstition had to continue. Now that we propose housing to be produced by an industry in which right makes might at less than a pound

per horsepower the superstition is obsolete.

"There is no individuality in conventional houses, They are all four-square boxes with varying lengths of rotting wood Greek column, nailed on to the front, every house so similar and the streets so similar that without signboards the stranger cannot tell the difference between one American town and another,"

~ Cite DESIGNING A NEW INDUSTRY, (RBF Reader, p.218), 1946

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Card C00209

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RBF DEF LNITIONS

Aesthetics of Uniformity: (3)

"let alone detect individuality in the separate and pathetic homes,

®0On the other hand, it has been discovered that the more uniform and simple the surfaces with which the individual is graced, the more does the individuality, which is the abstract life, come through, Trained nurses in uniform working in a hospital are notoriously more attractive as individuals than the same girls in their street clothes when off duty."

= Cite DESIGNING A NEW INDUSTRY, (RBF Reader, p.219), 1946

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Card C00210

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RBF DEFINITIONS:

"There is that sameness that makes twins, or even brothers and sisters of different ages, oft times indistinguishable to strangers; that makes whole races indistinguishable to the members of another race, yet which, with familiarity, becomes suddenly inconceivable of existence, That kind of sameness embodying character and harmony through repetition is not unhappy. There is the even greater sameness of a flotilla of destroyers, far more accurate in duplication than the human, with inspiring rhythm of appeal when seen in formation under way or moored. 'ithout visible distiguishing mark to the stranger, the destroyers have almost living individualism to their crews."

- Cite 4-D, The Time Lock, Chapter 10., May, 1928

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Card C00211

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Aoothetinc of Uniformity:

See Aesthetics of Reproduction

Prototype

Regenerative Design: Law Of

Reproducible

Standardisation

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Card C00212

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See Beautiful, 1938

Invisible Architecture, (F)

Life, 22 Apr'6&

Mass Production, 22 Apr?6&

Simplicity, 1954; 1968

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Card C00213

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Aeathetics: Aesthotes:

See Architectural Aesthetics

Beautiful

Form Follows Function

Intuition & Aesthetics

Invisible Aesthetics

Fuller, R.B: His Aversion to Artistic Exploitation
Of Synergetics Models

Objets d'art

Obnoxious

Harmonic: Harmony

Ugly = Incompetent

Beautiful = Most Efficient

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Card C00214

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See Airport, 11 Feb'73
Gravity, 16 Feb'73
Inventions, y Febto4,
Life, 22 Apr'ogs
Man as Local Problem Solver, (2)
Mass Production, 22 Apr'68
Proton & Neutron, 22 Apr'68
Star, Dec'72
Industrial Design, 13 Jun'74
Distribution, 25 Jan'75
Architectural Schools, 1 Feb'75*
Hydrogen Atom, Jan'72
Human Design, 5 Jun'75
Airspace Technology Envifonment Controls, (3)
Critic, 29 Sep'76
Culture, 27 Jan'77
Children as Only Pure Scientists, (1)(2)

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Card C00215

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Affection:

See Monopoly of Affection

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Card C00216

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HBF DEFINIGIUNS

"When people get affluent they stop thinking."

- Cite RBF to EJA, 3200 Idaho, Was UC, 14 May'73

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Card C00217

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RBF DEFINITIONS

Afford:

"I've been fighting-- many of us have-- to stop sulphur going into the sky. The Edison electric generating stations all around the country are bad culprits about this, As you fly over the different cities you see smog and you look where it comes from and a dozen chimneys provide the whole darn thing, primarily Edison chimneys. I was the speaker three weeks ago in Hartford at the National Edison Institute of America, all the executives... The host was one of the large engineering manufacturers of boiler equipment. And while talking with

engineers and research men I found that the equipment exists and is highly perfected to take all the sulphur out. The cost it would add to the production of electricity would be only thirty percent and you'd have no fumes in the sky."

"Thirty percent?"

"Yes, practically nothing.

"Isn't that kind of high?" I ask,

Fuller has been looking out toward the bay. But at this he snaps around, claps his hands together sharply, and glares at me."

~ Cite Rasa Gustaitis in WHOLLY ROUND (HR&W,NY) p.154, Feb'73

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Card C00218

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RBF DEFINITIONS

(2)

"High? High for what?" he shouts. There's fury in his face.

"High for what, dah'lin', high for what?" he repeats, straining to speak more calmly.

"The company would think it high," I stumble.

"High for death or high for life?"

"I understand you, Dr. Fuller, but..."

"To take the fumes out of the sky would cost thirty percent more," he interrupts, "The Edison men think its so high that the industrial companies which could generate their own electricity but buy it from them would start generating their own, So they don't want to put the price up.

"I was thinking they would think it high." All I meant was that under current conditions a thirty percent rise was unrealistic."

But later, when I reflect upon that incident, I decide he was the realist, not I, I reflect that Cliff Humphrey, head of

- Cite Rasa Gustaitis, WHOLLY ROUND (HR&W,NY), p.155, Feb'73

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Card C00219

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RBP DéFINITIONS

(3)

Ecology Action had said he was engaged in 'changing .

what was politically feasible,' That's what Fuller was doing too, And the obstacle for both of them was the sort of timidity of expectation I had just manifested.

Fuller spoke radically, that is, from the root of the thing.

He assumed that people had the right to expect industry to stop poisoning them, And the right would be recognized only when enough consumers and citizens stopped believing

reeprar ae propaganda about what was politically and economically easible.

~ Cite Rasa Guataitis, WHOLLY ROUND, (HR&W, NY), p,155, Feb'73

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Card C00220

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RBF DEFINITIONS

*The Universe is not operating on @ basis in which the Star Sun opines ignorantly that it can no longer afford to let

Earth have the energy to keep life going because it hasn't paid its last bill: 'We Stars have got to make a profitit®

= Citation and context as Economic Accounting System, 29 Jun'72

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Card C00221

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RBF DEFINITIONS

"And the norm of sustainable success
of all humanity

Will be realized

By the computer-confirmable information
That humanity can afford

To gratify handsomely

Whatever of its needs

And growth requirements

Can be satisfied

By what can be produced

Out of the as yet untapped resources
Employed in yesterday's

Now obsolete and scrapped
Technological devices.

= Gite INTUITION, p.65 May '72

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Card C00222

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RBF DEFINITIONS

Afford:

"Anything man needs to do he can afford to do,"

- ~ Cite RBF Quoted by Lee Dembart, New York Post,
26 April T07T

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Card C00223

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RBF DEFINITIONS

Afford:

"The young realize, as their elders do not, that humanity

can do and can afford to do anything it needs to do that
it knows how to do,

- catdtion at Young World, Oct'70

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Card C00224

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See Buy or Die

Doing What Needs to be Dene

Earning A Living

Money Metaphors

Spending

Success

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Card C00225

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See Economic Accounting System, 29 Jun'72¢

Heartbeat Magnitude Sequence (2)

Mind as Rent? 27 Mar'73

Television, Fe 193

Yesterday's Textbooks, 13 Nov '69

Young World, Oct '70*

Success, Jan '72

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Card C00226

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RBF DEFINITIONS

"Only the afterimage gives a sense of motion-- as in the butterfly."

- Cite RBF to EJA, 1970

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Card C00227

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RBF DEFINITIONS

Afterimage lags:

"Time is only a relative observation, a set of local sequences of experience of the brain,"

- Cite RBF marginalis 20 Dec '71 at SYNERGETICS draft Sec. 529.06

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Card C00228

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Afterimago Laga:

See Double Take

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Motion Apprehension

Scenario

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Card C00229

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See Abstraction, 24 Feb '72

Brain, 22 Jun '72

Congruence, 25 Jun '72

Eccentricity, Jun '66

Formulations, 1963

Invisible Tetrahedron, 13 Nov '6y

Motion, 4 Mar'oy

Physical is Always the Imperfect, 14 Feb '72

Sight, 1 Apr '4ay

Thought, 37 May '71
Time, elrea 1970; Dect71
Conceptuality, 6 Nov '73

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Card C00230

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RUF DEFINITIONS

After Life:

"ae. Finally there was so much know-how, and so much tooling, and so much resource development that they said, "You know

we ought to be able to take care of the pharaohs and the nobles but the middle class, That's where you really watch history opening up, With Greek and Roman history we have a rich middle class-- also with its mausoleums getting ready for the after life. Finally, there's so much accumulation

of know-how in the present ute that we finally have a Buddha,

and A Christ, and a Kohammed saying, "'e have enough now to take care of the after life of everybody.' That really is

a significant moment when everybody is in on the after life, That begins the whole era of all the great cathedrals, looking out in every way to help those people get ready for the

after life, Everybody's in, This exerts a very powerfully operative effect. You see the figure in a black shawl in

those great cathedrals and there's fantastic pathos, and her eyes light up with ecstacy to think of joining her fost ONES sce"

- Cite Univ. of Alaska Address, p.6, 20 Apr '72

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Card C00231

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After Life:

See Immortality
Pharaoh

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Card C00232

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After Life:

See Pyramid Technology, Dec '71
Buddha: Christ: Mohamed, (1)

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Card C00233

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See Atheism, Feb '72

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Card C00234

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RBF DEFINITIONS

Age:

"A new age is unpredicted, An age is an unpredicted aspect
of universal environment."

= Cite RBF to EJA, 3200 Idaho, Wash DC, 25 May '72

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Card C00235

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RBF DEFINITIONS

"Each age is characterized by its own astronomical myriads
of new special case experiences and problems to be stored
in freshly born optimum capacity human brains-- which
storages in turn may disclose to human minds the presence
of heretofore undiscovered, unsuspectedly existent,
eternal generalized principles."

- Cite RBF Front Paper for SYNERCGETICS, draft 26 May '72

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Card C00236

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RBF DEFINITIONS

"We are moving from the Industrial Age into the Age of

Cybernetics. This is the most difficult transition in history because it has to be accomplished consciously, whereas the other transformations through which mankind has passed have been accomplished inadvertently."

- Cite RBF to ALDEN HATCH in "RBF: At Home in the Universe," p. 252, probably from tape transcript. 6 Jun'74

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Card C00237

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See God, 26 May'72

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Card C00238

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Agents:

See Promote: I Don't Promote

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Card C00239

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Agents:

See Intuition aa Remote Cosmic Transmission,
29 Jan'75

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Card C00240

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Agglomerating: Agglomeration:

See Bubbles

Closest Packing of Spheres

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Card C00241

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Agglomeration: Agglomeration:

See Vector Equilibrium, 22 Jun'72

Colloidal Chemistry, 1938

Nucleus, 13 Nov'75

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Card C00242

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RBF DEFINITIONS

Aggregate:

"Points are energy event aggregations. When they converge beyond the critical fall-in proximity threshold, they orbit coordinatedly, as a Universe precessed aggrate, as loose pebbles on our Earth orbit the Sun in unison, and as chips ride around on men's shoulders."

(Compare Point, 19 Jun '71)

- Cite RBF Marginalis, 20 Dec. '71
SYNERGETICS draft at Sec. 519.01

incorporated in

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Card C00243

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RBF DEFINITIONS

Aggregate:

"Aggregate means sum-totally but non-unitarily

conceptual as of any one moment."

~ Cite RBF marginalis,
Beverly Hotel, Newyork
28 Feb '71

es

TUNIVERSE - See.30Z] 501.07)

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Card C00244

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RBF DEFINITIONS

Aggregate :

"Aggregate 19 used instead of sumtotally when we don't know whether it's all of them."

- Cite RBF to EJA, Sarasota, Fla., 7 Feb '71

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Card C00245

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Aggregate ¥ Continuum:

See Sumbvisible Discontinuity, 19 Oct '72

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Card C00246

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See Human, 22 May '73

Local, 23 May '73

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Card C00247

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See Colloidal Chemistry

Historically Synchronous Aggregate

Nebula

Prestressed Concrete

Spontaneous Aggregate

No Absolute Enclosed Surface or Volume

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Card C00248

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Aggregate:

See

Aggregates:

Domain & Quantum, (1)

Energy Involvement of 92 Elements, {1)
Generalised Principles, 1 Jul75

Geodesic Sphere, (1(2\$

Island, y Nov '7\$

Object, 28 Feb77

Point, 19 Jun '71

Starting with Universe, 31 May '75
Constellar, 3 Oct '72

Environment, 28 Mar '77; 29 Mar '77; 12 May '77

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Card C00249

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RBF DEFINITIONS

Aggressiveness:

®, Aggressiveness is an essential of intuitive curiosity."

- Citation & Context at Fighting, 7 Nov'67

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Card C00250

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See Human Tolerance Limits, (2)(5) ; (A)-(D)
Anger, (1)-(3)

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Card C00251

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See Complementarity of Growth and Aging
Growth

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Card C00252

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See Away & Ago

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Card C00253

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RBF DEFINITIONS
Agrarian Metabolics:

".. Man goes from guarding the local roots of his originally
exclusive agrarian metabolics life support into world-around
eo industrialization,

- Citation and context at Sovereignty: Elimination Of, 29 Jun'72

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Card C00254

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Agrarian Metabolics: Agricultural Metabolics:

See Economic Accounting System, 29 Jun'72; (B)

Sovereignty: Elimination or, 29 Jun'72

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Card C00255

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Agrarian:

See Agrarian Metabolics
Agriculture
Planarity of Civil & Agrarian Law

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Card C00256

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RBF DEFINITIONS

Agricultural Accounting System:

", s.« the ignorantly perpetuated

Exclusively deprecative agricultural account ro a
Had been appropriate only

To the inherently perishable

Short-term energy conservations

And ecological energy exchangings of bio-organics
Accomplished exclusively by photosynthetic impoundment,

On planet Earth, of Sun and star radiation.

Agricultural economics accounts only

The strictly physical, short term realizabilities,
Agricultural metabolics differ from industrial metabolics
Which deal exclusively with the eternal metaphysical principles."

- Context and citation at Economic Accounting System (A)(B), Jul72

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Card C00257

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Agricu aj] Accounting 3S:

See Economic Accounting Systen

Industrial vs. Agricultural Accounting

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Card C00258

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See Copper, (2)

Copper Sequence, (1)

Debt, 1944

Depreciation, 22 Jun'72

Economic Accounting Systems (A)(B)

Industrialization, 1 Aug'7:

Scarcity, 28 dunt 72

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Card C00259

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RSF DEFINITIONS

See Agrarian
Food Production
Vegetable Crop Harvesting

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Card C00260

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Agriculture:

See China, {A)-(g}
Civil War, (2)
Colonialism, 26 Jan'72
Cosmic ve. terrestrial Accounting, (4)
North-south Mobility of World Man, (2) (3)
Unsettling vs. Settlements, 20 Sep'76
Human Unseattlement, (1)

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Card C00261

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KBF UEFINITIONS

Adken: Conrad Aiken:

"His problem as a poet 18 that he was preoccupied with turning inward-- the feeding of the ego-- a completely monological poetry, just at a time when this great revolution of world man and concern for otherness is breaking through, Thomas Wolfe and "You Can't Go Home Again," At's the same situation. . . . Of course, the time will come again when we will swing away again from the group

situation and can afford again to be interested in turning inward."

- RBF to EJA on Northeast Airlines Flight to Boston,
14 Feb a literary reading Mark Schorer piece on

Aiken in early Atlantic.

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Card C00262

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See Interained

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Card C00263

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RbF DEFINITIONS

"We take on 54 pounds of air a day out of which we identify seven pounds of oxygen."

- Cite RBF at Penn Bell videotaping session, Philadelphia, 22 Jan '75

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Card C00264

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RBF DEFINITIONS

Air:

"I'm just going to throw in some figures I find very startling. Have any of you any idea about the weight of air? Do you

have any feelings about the weight of air? I have a 100-foot sphere full of air, 10 stories high. Somebody tell me quickly the weight of air in a 100-foot-diameter sphere. Everybody averages about three pounds of food a day; some way overdo that. We take on also about eight pounds of water and every one of you breathes and combines with that food and water 84 pounds of air a day. This is your really big food. I think it's simply astonishing. The sphere full of air-- there's seven tons of air in it. Air weighs plenty."

- Cite RBF in "The Lister" transcript by John Doaatt, 26 Sep '68

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Card C00265

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Air Conditioning:

See Dynamic Air Conditioning
'Wind Stress & Houses
Ghana Dome: Self-chilling Machine

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Card C00266

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RBF DEFINITIONS

Air Delivered City:

"The building industry is the last holdover of the archaic craft system. We are going to have to revise our building technology, The Lockheed Corporation already has drawings

for an aircraft holding ten thousand passengers, There is no reason why you couldn't build a New York skyscraper along similar lines, It could be built horizontally under mass production conditions and flown in horizontally to minimize drag, then upended, In this fashion we would be able to deliver a whole city in one day by air."

~ Cite RBF quoted in New York Magazine, p.26, 30 Mart70

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Card C00267

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RBF DEFINITIONS

D Cities: (1)

"You asked me how much should go into air transportation or to building new harbors.... Well, as for carrying passengers, ships have gone out-- 100 percent-- no longer a way to get from here to there; not even as local ferries. The main tonnage on the sea is going to become the ore carriers; I think they will probably do extremely well, They don't have loads that are going to pollute our Earth,

"I have often pointed out the factor that if you double the length of a ship you get four times the surface and eight times the volume and twice as much payload-per-skin surface, which is the critical factor. So it might seem that it would also pay for airplanes to get bigger and bigger, but they found that they would have to get the runways longer and longer--~ which approaches the point of no return. Obviously, the next phase is vertol, but the United states is not doing much about that as there are too many people making money in the airplane runway business. So

we got hooked, into a pattern, The English are the only ones

who have Sarried vertol into being-- I know the Russians did too; but the English are the ones who have shown that vertol is completely practical. One could have very large airships and"

- Tape #2 transcript, pp.6-7; RBF to W.Wolf, 15 Jun'74

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Card C00268

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RBF DEFINITIONS

Air Delivery & Submarine Cities: (2)

"and we could have vertol tugs to get you into altitude and then start you horizontal. I want you to understand that that

is a very practical art and it will come.

"So then we are going to have all those container ships going by air-- particularly as we cut down on the weights of materials. I first began to talk about freight by air in the mid-1930's when we didn't have any transoceanic yet-- flying boats, yes, but there was no land for landings..... You never go freight

by air with the Ford tri-motors moving mining gear into places you could never go before except by air. Well, I'm simply saying that we're moving into the miniaturization of everything; we are going to get into the great containers and they are going to contain less weight goods and this is all going by air,

"with design science we can work out what we can do by water with the sea as a resource. The sea bottom could not be more important. You could not dock ships at sea, one with the other, due to the rolling of the sea. The great tonnage is in there, but the mass attraction would chew them to pieces. You have to always go to harbors; and there are not many harbors around the world so you have to go enormous distances to transfer your"

= Tape #2 transcript, p.7; RBF to W.W. Wolf, 15 Jun '74

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Card C00269

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RBF DEFINITIONS

Air Delivery & Submarine Cities: (3)

"cargoes, And that gets us into a solution with the great big submarines going 70 knots, three times the speed of any surface freighters. They are very fast as they are down below the turbulence, Thus it is a very practical matter to transfer cargo below the turbulence, This brought me into the development of submarine cities where you can have an enormous caisson going down through the turbulence. You can make helicopter landings on it from above and the submarines are going to just nestle right up to it from below and that's where we'll have the cargo transferring, The sea surface phase will go with the interface between water and air and man fighting all that turbulence: nothing could be more illogical, I hope I've given you a clean simple insight to the questions you asked. And as for how this influences the politicos, I'm just never going to try to influence the politicos, They are just going to get themselves more and more into trouble and you have the solution waiting

for them, That's called emergence by emergency."

"I don't try to influence. I have standbys ready when they get

into trouble. That's exactly why the geodesic dome came in. That's why they were used for the DEW Line, for instance."

* Tape #2, transcript p.8; RBF to W. Wolf, @ 15 Jun'7h

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Card C00270

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Air Delivery: (1)

See Helicopter: Sky Tug
Horisontal Skscraper
Dwalling Service Industry

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Card C00271

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Air Delivery:

See Airspace Technology Environment Controls, (1)
Dymaxion Artifacts, (1)

Now House, (5)

Dome House Grand Sratgey: 1927-1977, (1)(3)

Mobile Rentability vs, Immobile Purchasing,

Disarmament, (1) (2)

Old Man River Project, 20 Sep'76

20 Sep'76

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Card C00272

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Airframe Dwellings:

See Dwelling Machines, 4946

North Face Domes, 20 Sep'76

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Card C00273

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Adrocean World:

See Dymaxion Airocean World:
World Two

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Card C00274

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Airecean World Map:

See Dymaxion Airocean World Map
Transformational Projection

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Card C00275

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RBF DEFINITIONS

Airplane:

"i esThe complex of synchronized convergent principles called
airplane...

- Citation & context at Improvement, May's9

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Card C00276

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Airplanes: Far Apart in the Sky But Slowed Down When Close (1)
Together on the Land:

See Ships: A Fleet of Ships Needs More Room at Sea

Than When Docked Side by Side

Slow: The Slower We Get the More Crowded We Get

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Card C00277

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Airplanes: Far Apart in Sky but Slowed Down When Closer (2)
'ogether_on the Land:

See Balloon (C)

Thinking, Jun'66

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Card C00278

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See Stable & Nonstable Systems, 2 Nov'73

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Card C00279

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See Thinking, Jun'66

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Card C00280

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RUF DLF INIT IONS

Airplane Flight as Lift

"It appeared and as yet appears to follow, in conventional, state-licensed structural engineering, that if tension is secondary and local in all men's structural projections, that tension must also be secondary in man's philosophic reasoning. As a consequence, the popular conception of airplane flight was, at first and for

a long time, erroneously explained as a compressional push-up force operating under the plane's wing. It 'apparently' progressively compressed the air below it, as a ski compresses the snow into a grooved track of icy slidability. The scientific fact remains, as wind-tunnel experiments proved, that three-quarters

of the airplane's weight support is furnished by the negative lift of the partial vacuum created atop the airfoil. This is simply because, as Bernouilli showed, it is longer for the air to go around the top of the foil than under the foil, and so the same amount of air in the same amount of time had to be stretched thinner, ergo vacuously, over the top. This stretching thinner

of the air and its concomitant greater effectiveness of inter-positioning of bodies (that is, the airplane in respect to Earth), is our same friend, the astro- and nucleic-tensional integrity of dynamic inter patterning causality."

= Cite SYNERGETIC text at Sec. 640.03, 4 Oct '72

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Card C00281

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Airplanes ys, Railroads:

See Human Unsettlement, (5)

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Card C00282

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Airplane: Stalling Airplane:

See Equilibrium, 1965; Jun '66

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Card C00283

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See Jet Engine

More with Less: Sea & Air Technologies

Space Technology

Tracer Bullet Sequence

Weapons Technology

Wright Brothers
Airspace Technology

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Card C00284

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See Discontinuous, 10 Feb '73
Dome: Rationale For, (I)(II)
Dwelling Service Industry, (2)
Environment Control Valve, 1954
Industrial Lag, (2)
Point: Outbound Point, (1)
Ruddering Sequence as

Safety Factor, 25 Sep! 72

Wichita House, (1)

Mines Above Grade, 30 Jan '75

Dwelling Machines, 1946

Dome House Grand Strategy: 1927–1977, (2)
Human Unsettlement, (2) (3)

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Card C00285

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TEXT CITATION

Airplane:
Mexico '63, p.6, 10 Oct 163

Synergetics, Sec. 040,03, 4 Oct '72
Flight: 640.03

Design: 723,06

Landing Gear: 1061,12

Speed & concentration: 763,02

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Card C00286

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See Boeing 747
Bullet: Synchronization of Bullet through Airplane
Propeller Blades
Flight
Flight: Fixed Formation Flight

Tracer Bullet Sequence
Vertol

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Card C00287

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See Lecturing (2)
Trim Tab, & Jan '66
AngloAmerican, 28 Apr '7k
Trails & Wakes, 8 Apr '75
Improvement, May 'h9*
Everybody's Business, (1)

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Card C00288

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See Airplanes Far Apart in the Sky but Slowed Down

When Close Together on the

Airplane: Four Airplanes in the Sky

Airplane Flight ase Lift

Airplanes Stacked up for Landing

Airplane: Stalling Airplane

Airplane Technology

Airplanes vs. Railroads

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Card C00289

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RBF DeFINITIONS

Airport:

"Having been commisioned to design a prototype international domestic airport (sic) enduringly suitable to the next two decades of human evolution on our planet in the face of accelerating-acceleration of techn@logical evolution, it is a commission which cannot be realized simply by adequate money, good will, cooperation, etc.. If it can be realized at all, it can only be realized by the most daring employment of fundamental wisdom thus far accorded to humanity. For the transportation communication at the astronautic level not only milleniums ahead of the strictly landed and urban arts, are accelerating at many fold the rate at which the landed arts are accelerating, The airport is where these two-

mad Lent nme APare 5 astronautical and ground arts are to be wedded."

- Cite RBF draft Ltr. to Karan Singh above paragraph omitted from passage incorporated in S ERGETICS at Sec. 260, 13 Mar'73

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Card C00290

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REF DEFINITIONS

Airport:

"If anyone were to ask you, "How did you like the airport?"

the best answer would be: 'mat airport?" An airport should work so well that you wouldn't know it's there. The idea is not to make something pretty."

- Cite RBF to EJA, Pepper Tree Inn, Santa Barbara, 11 Feb'73

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Card C00291

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Airporte:

See Human Unsettlement, (5)

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Card C00292

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RBF DEFINITIONS

"There is so much air for man to breathe that it has always been socialized."

= Citation and context at Design Science (1), 29 Jun'73

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Card C00293

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RBF DEFINITIONS

Air_dp Socialised:

"Man can only go two minutes without air; so he wasn't given any options about air, Air is socialized. The air is everybody's."

-- Cite RBF remarks at Design Science Institute press conference

N.Y., 28 Jun '72

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Card C00294

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RBF DaFINITIONS

A s :

'tumanity has so much air available that no one has even thought of putting metera on air and trying to make money out of it. But there are times, for example, in a great theater fire, when humanity, completely unused to competing for air, finds itself suffocating and goes mad. . »

"It seems perfectly clear that when there is engkh to go around man will not fight any more than he now fights for air."

- Cite-THE-WSAR-2000 Stan ese featenGeliegs
MertéG
&® Citation and context at Politics (1)(2), Feb '67

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Card C00295

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Air Is Socialized:

See Human Tolerance Limita, (4); (C)

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Card C00296

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RBF DEFINITIONS

"While earliest hunting men were linear, agricultural and trade-center colonizing men began to deal in planes. The crisscross, right-angle grid of the 'plane' is apparent in civil and agrarian law, A realistic geometric progression

is disclosed in the transformings of legal evolution.

Building vertically as he became crowded, three-dimensionality entered man's law governing, for instance, multiple

occupancy buildings, and the like. Now legal prospecting attempts to deal statically (and futilely) with dynamical fourth-dimensionality air s , outer space, and so forth.

Here the laws of man will have to conform eventually with Einstein's relativity, which will bring about an omnidynamical symmetry marriage of social and natural law. The air's flow continually around the Earth, so the air above any one

point does not stay there. Because of the Earth's revolutions and orbiting, as well as the other astronomical motions, geometrical relationships continually change above any point on Earth. Ergo, neither the air nor the starry frame of reference remains the same, So we ask what the properties

are of their 'air space' which men, cities, and nations assert to have been violated, How violate nonexistence?"

~ Cite RBF in AAU Journal, p. 177, May 165

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Card C00297

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RBF DEFINITIONS

Airspace Technology:

World War II took humanity's technology into the sky and deep into the ocean and eventually into outer space. These latter arts required an enormous step-up in doing more with less in order to make all logistics flyable, rocketable, or electromagnetically transmittable."

- Citation & context at Human Unsettlement, (3), 20 Sep*76

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Card C00298

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RBF DEFINITIONS

kirspace Technology Environment Controls: 1)

"Nonscientific architecture became obsolete in the 1920s and was central to the crash of 1929. By guaranteeing mortgages in 1933, the United States Government underwrote this obsolete, nonscientific building activity often erroneously spoken of as the 'building industry.' It is the antithesis of industry. It is a 'tone-off' craft.

"The United States is now gone into debt to the extent of three-quarters of a trillion dollars. About half-a-trillion of that is in government underwritten mortgages. No longer can the government pay even the interest on this debt and the end

of the world-around subsidizing of the obsolete building craft is near at hand. If humanity survives it will do so by cessation of its \$200-billion-a-year investment in the preparation for war and the production of armaments. If humanity survives, the metals of those armaments will be melted up to be turned to high advantage as the airspace weapons technology in general converts to production of environmental-controlling facilities and services of humanity. When that time comes, science, technology, and industry whole, air-deliverable, scientific, environment-controlling apparatus. Whole cities will be air-delivered in a day and removed in a day, in the"

- Cite RBF Ltr. to Hs. Anne Sayre, 2 Sep '75

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Card C00299

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RBF DEFINITIONS

Airspace Technology Environment Controls: (2)

game manner that great fleets of ships can come into harbor

in one day and vanish the next. Yona Friedman's return to the science of architecture is not only intuitively sound but very practically sound. He writes in a way that should be very understandable in general and should help prepare for this severe reorientation in human affairs,

"The architects of the Boeing-747 have produced a 400-occupant. sky-dwelling device able to move through the air at 10 times the velocity of hurricanes, The atmospheric resistance increases

as the second power of the speed, which means in this case,

$10^2 = 100$, ergo the ferocity of the interaction of the Boeing 747 and the air is a hundredfold the energetic ferocity of a hurricane.

"When the captain of a Boeing 747 tells the passengers over the intercom to fasten their seat belts because it is going to be

a little bumpy, the plane travelling at 10 times the velocity of a hurricane may be about to pass through vertical thermals, one outbound from the Earth at 100 miles per hour, the other

inbound toward the Earth at 100 miles per hour, The stresses NASA endures going through opposition. OUT mad Shears"

= Cite RBF Ltr. to Ms. Anne Sayre, 2 Sep '75

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Card C00300

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RBF DEFINITIONS

Airspace Technology Environment Controls: a)

"at these speeds is equivalent to taking the S.S. Queen Mary over Niagara Falls so successfully as only to provoke passengers saying, 'It is a little bumpy today. !

"The captains of Boeing 747s land their craft weight 150 tons at 150 mph, often in a foggy night, and do so with such competence that, with the music going, people think no more of it than steering an automobile to the curb. That is scientific architecture which has been evolved from millions upon millions of scientific measurings and on billions of flying hours'

experience, The silver ship going through the sky is a thing of great beauty, but in no way was its structural design arrived at by arbitrary shape preferences. The shaping came out of the wind tunnels. The shaping of the wings came out of the Bernouilli principle of atmospheric pressure differentials. The aesthetic of scientific architecture derives entirely from both comprehensive and incisive integrity and from faithful adherence to science and technology's discovery of physical laws."

- Cite RBF Ltr. to Ms. Anne Sayre (ifIT Press), 2 Sep*75

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Card C00301

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Airspace Technology: Air Technology:

See Space Technology
dalls vs, Airspace Technology
Airplane Technology

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Card C00302

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Airspace Technology: Ajir Technology:

See Human Unsettlement, (3)*
Building Industry, (1)

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Card C00303

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See Planarity of Civil & Agrarian Law

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Card C00304

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Ain Space:

See Up & Down Sequence, (1) (2)

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Card C00305

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See Atmosphere

Biosphere
Sky
Oxygen

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Card C00306

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See Ecological Pattern, 14 Sep'64
Human Tolerance Limits, (A)-(D)
Subconscious, 20 Feb'77

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Card C00307

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Alara_Clocks:

See Brain's Alarm Clocks

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Card C00308

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See Invented Periodicities, May's9

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Card C00309

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Alcehol: Alcohol as Fuel:

See Grand Central Station of Energy

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Card C00310

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Alcohol: Alcohols as Fuel:

See Wind Power Sequence, (3)
Wood Technology, (2h*)
No Energy Crisis, (A)(B)

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Card C00311

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Income Energy, (1)
Photosynthesis, (1?)
Precession, (II)

Culture, 11 Aug '76

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Card C00312

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RBF DEFINITIONS
Algebra:

"I like algebra

Positives more powerful than negatives

(+) x (-) = (+) minus wins

(+) x (+) = (+) plus wins only by default

(+) x (~) = (+) plus wins

The game is over --

Plus wine two to one.

Cite HOW LITTLE, p. 46

Oct #66

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Card C00313

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RBF DEFINITIONS

Algebra:

"The conceptual modeling" of synergetics "does not contradict
ee. but complements the exclusively abstract algebraic express-
ion of physical Universe relationships which commenced
approximately one century ago with the electromagnetic wave
discoveries of Hertz and Maxwell" whose "electrical apparatus
experiments made possible their algebraic treatment without
being able to see or conceptually comprehend the fundamental
energy behaviors, The permitted discrete algebraic statement
and treatment of invisible phenomena resulted in science's
comfortable yielding to completely abstract mathematical
processing of energy phenomena, The abandonment ... of

conceyntal models removed from the literary men any conceptual patterns with which they might treat in attempting to communicate the evolution of scientific events to the non-mathematically-languaged public."

- Cite Ltr. tp Prof von Hochstetter, p.4, 28 Oct'64

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Card C00314

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RBF DEFINITIONS

Algebra:

The Arabs "in their mathematical coursing... invented algebra, which derives, etymologically, from aljebr, the reunion of broken parts, or jabara, reunited, in effect teleology."

- Cite NINE CHAINS TO THE MOON, p.141, 1938

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Card C00315

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Algebra:

See Mathematical Symbols

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Card C00316

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Algobra:

See Multiplication, Apr'71
Progressions, May'h9

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Card C00317

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See Life: Concept of Being Alive

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Card C00318

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RBF DEFINITIONS

All-Acceleration Universe:

"The normal speed of universal formulations and transformative mevents is 700 million miles per hour. Man's thus-far-attained top speed of physical self-transport is 15,000 miles per hour. Normal speed is

46,000 times man's rocket speed. Therefore, man is-- relatively speaking-- almost as immobile as death.

On the other hand his environmental facilities may be

so organized by design science as to give some appreciably large percentage communication advantage by radio which operates normally at 700 million miles per hour."

= Cite DOXIADIS, p. 321, 20 Jun '66

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Card C00319

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RBF DEFINITIONS

All-Acceleration Universe:

", . . The Newtonian assumption that 'at rest' is normal for the universe . . . has been annihilated by Einstein's ongoing evolution norm of an all-energetic physical universe with a normal speed of 186,000 m.p.s.

"Einstein's norm proved to be true as it explained elegantly the amounts of energy released by fission from a given mass of chemical matter."

- Cite HOW TO MAINTAIN MAN AS A SUCCESS

Utopia or Oblivion, p. 225

18 Mar '65

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Card C00320

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RBF DEFINITIONS

All-Acceleration Universe: , qQ)

"We have come to the realization that we are in an all-around Universe, that the old concept of 'at rest' is not normal. When we lie down to go to sleep we do not shut off the valves and freeze into rigid statues. Our billions of atoms take on a myriad of constellation activities in lieu of a few galactic motions of the day's routine regimentation of the body's sub-assemblies.

"All our curves of measurement of man's earthly doings show an acceleration 'upward,' that is, with 'at rest' regarded as

normal, the curves of man's doings have taken the shape of a ski (reading from heel to toe). The curves have ascended now into almost vertical abnormality. Is this race schizophrenia? No! It is just that our standards of reference are cockeyed.

"Obviously we must now abandon the unrealistic 'at rest' and refer all our affairs to the realistic yardstick of energy and its velocity aspect, as recently and universally adopted by science from Albert Einstein's work. To do so we need only revolve our charts / through / 90-degrees of angle, so that we may see the curves descending precipitously from the old heights"

- Cite PREVIEW OF BUILDING, I&I, p.201, 1 Aprtag

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Card C00321

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RSF DEFINITIONS

All-Acceleration Universe: (2)

"of ignorance and abnormality and tending to level off into dynamic equilibrium with the all-motion Universe, infinitesimal about us. Thus quickness replaces Static death as the normal of both life and Universe. Life is no longer exceptional to, but inherent in, the Universe."

= Cite PREVIEW OF BULLDING, I&I, p.201, 1 Apr'49

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Card C00322

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All-acceleration Universe:

See Absolute Velocity

All-motion Universe

Top Speed

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Card C00323

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RSF DEFINITIONS

I use the term regenerative because in an Einsteinian Universe (which Einstein posited and the physicists in due course found to hold true), all the patterns of the Universe are continually but nonsimultaneously affecting all other patterns of Universe in varying degrees and are continually reduplicating themselves in unique local configurations."

- Citation and context at Structure Sequence (1), 1965

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Card C00324

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See All-acceleration Universe
Instant Universe vs. Ali-motion Universe

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Card C00325

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See Integer, 15 Oct'72

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Card C00326

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All or None:

See Competition: Elimination Of
Survival Sequence
Utopia or Oblivion
You and Me

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Card C00327

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See Industrialization, 1928
Nation, Oct'70

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Card C00328

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See Any and All

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Card C00329

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RBF DEFINITIONS

"Al. the four unique frequencies of occurrence of the 92 chemical elements are uniquely different yet many are intersynchronizable in overlappingly occurrent alloys whose unique sets of interattractive interrelationships produce the synergetically unique behaviors of those specific alloys."

- Cite SYNERGETICS, 2nd. Ed, at Sec. 530.13, 30 May'75

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Card C00330

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RBF DEFINITIUNS

"it is a characteristic of metals that an alloy is stronger when the different metals' unique, atomic, constellation aymauetries have congruent centers of gravity, providing mideedge, mid-face, and other coordinate, interspatial Accommodation of the elements! various symmetric systems.

= Cite RBF rewrite of SYNEHGETICS galley at Sec. 931.62, 19 Dec'73

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Card C00331

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RBF DEFINITIONS

Alloy:

", » « That is synergy-- behavior of a whole unpredicted by its parts, We have to explain this. To begin with, chains in metals do not occur as open-ended lines. In the atoms the ends of the chain come around and fasten the ends together--

endlessly-- in a plurality of concentrically coordinate circular actions,

~ Cite RBF marginalis at old Chap 2, "Synergy," I.3, 18 Mar'69

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Card C00332

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RBF DEFINITIONS

Alloy:

"We must explore further for clues to the strength of this chrome-nickel-steel alloy-- and, if possible, o

all the
alloys-- for strategic purposes."

- Cite RBF marginalis at old Chap. 2, "Synergy," I.2, 18 Mar'69

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Card C00333

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RBF DEFINITIONS

"Alloys are synergetic,"

= Citation and context at Synergy, July'59

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Card C00334

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See org Stronger than its Weakest Link

i0tAa

Tensile Strength of Chrome-nickel-steel

Strength is Invisible

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Card C00335

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See Coherence, 10 Feb '73

Dome: Rationale For (I) (II)

Gravity, 7 Feb '71

Pollution Control (2)

Synergy, Jul '5y%

Copper, 15 Aug '70

Generalize, 9 Fr ebt 76

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Card C00336

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RBF DEFINITIONS

Allspace Filling:

"This was a mistake in my letter to Steve Baer~ my idea of a particular allspace-filling hexahedron, What I was really talking about in the letter to Steve Baer was the Mite,

I just had it confused,"

Compare substantial revision of 8 ergetics

draft at Sec, 950,10,26 Aug '73,

_ Cite RBF to EJA, 3200 Idaho NW, 25 Sep '73

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Card C00337

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RBF DEFINITIONS

Allspace Filling:

"Speaking externally, either 'prime' or complex 'frequency' tetrahedra and octahedra may interaggregate with one another close-packingly to fill allspace while icosahedron may never do so. The icosahedron may be face-associated to constitute an ultimately large octahedronal structure."

- Cite SYNERGETICS draft at Sec, 1014.36, 17 Feb'73

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Card C00338

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RBF DEFINITIONS

Allspace Filling:

"Allspace filling is a scenario: the eternally selfregenerative scenario of cosmic integrity."

- Citation and context at Field, 2 Nov'72

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Card C00339

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RBF DEFINITIONS

"When we speak of allspace filling, we refer only to a conceptual set of in-time local relationships. is is what we mean by tunability."

~ Cite SYNERGETICS text at Sec. 780.13, 22 Oct'72

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Card C00340

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RBF DEFINITIONS

Allepace Filling:

"Because the cube is the basic three, if we assess space in terms of the cube as volumetric unity, we will take three times as much space as would be occupied by the tetrahedron as volumetric unity. The arithmetical-geometrical coordination in terms of cubes is threefold inefficient for we are always. dealing with physical experience and the structural systems whose edges consist of events whose actions, reactions and resultants consist of one basic energy vectors; therefore the cube requires threefold the energy to structure it as compared with the tetrahedron. 'Ne thus understand why nature uses the tetrahedron as the unit of energy, as its energy quantum, because it is three times as effig@nt. All the physicists! experiments show that nature always employs the most energy-economical tactics."

- Cite _Carbondaic prate
Retarate-Modelability,-p Vi?

- Citation at Cube, Jun'66
- Cetecite Seer Pe.

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Card C00341

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REF Di.FINITIGNS

"When we try to fill all space with tetrahedra, we are frustrated because the tetrahedra won't fill in all the voids above the triangular based grid pattern. So we say, 'What can we do to negotiate all space filling with tetrahedra?

What is the complementary form needed to do so?'"

-Cite_Carbondaie Draft
Return-ve-Medelability,-p. 3

~ Cite KASA Speech, p. 68, Jun'66

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Card C00342

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RBF DEFINITIONS

Allspace Filling:

"It I put a little one-eighth octahedron on the corner of each of the eight triangular faces of the vector

equilibrium it becomes a cube. Therefore, when I bring vector equilibria together in masses, it leaves a little space on each of these corners, but you remember that eight cubes always come together around one point. Therefore, there will be eight of these one-eighth octahedra on each

of the corners which come together at this point, Therefore the eight of them together would make one octahedron. We find then that the vector equilibrium plus the octahedron on the outside of each of the triangular faces would fill all space,

When we bring the vector equilibria up to each other we find that two of their square faces match together, Within a square face we had a half octahedron, so that brings two of the square faces together and I get an internal octahedron between the two of them. The external octahedra are intervened between the vector equilibria on their triangular faces and there is an internal set of octahedra between the square faces."

- Cite Oregon Lecture /7, pp. 254-255. 11 Jul'62

SYSTEM- SEC 470-622

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Card C00343

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KBF JEFINITLUNS

Alls E 3

« « elo fill space the octahedra and tetrahedra must pack together."

"The tetrahedron will not fill all space."

"One thing very nice about cubes was that they account all space, without any other device."

", ..e4e can fill all space with tetrahedra and octahedra."

-, Cite Carbondale Draf-
Naturele-Geoerdination,-p.¥i-st2-++3_,

~ Cite Oregon #6, p. 213, 10 Jul'62

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Card C00344

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RBF DEFINITIONS

Allspace Filling:

"The rhombic-dodecahedron is an all space filler like the cube."

~ Citation & context at Rhombic Dodecahedron, 10 Jul'62

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Card C00345

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RBF DEFINITIONS

"The tetrahedron will not fill all space. If we take an eqtilateral triangle and bisect its edges and put three little tetrahedra on the three corners of the triangle and put @ fourth tetrahedron in the center, we find that there is not enough room for other sm tetrahedra to come down in the crevices between the peaks of the tetrahedra. Se you cannot fill all space with tetrahedra, What you do is fill all space with tetrahedra and octahedra. They complement one another. But if you were looking for a monological explanation this

wouldn't be nice for you. If you are willing to go along with the physicists, recognizing complementarity, then you would say that this method of accounting, which is coming out nice and rational, is a _ perfectly good way of accounting. ~Y could talk tetrahedra even though

I am using different forms. Now we have tetrahedra being agglomerated with octahedra and we have a very interesting kind of condition."

= Cite UREGON Lecture #6, p. 216, 10 Jul '62, Incorporated in SYNENGETICS at Secs, 950.01 + 950.34, 14 Nov '72

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Card C00346

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See Nondefinable, 22 Oct '72

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Card C00347

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RBF DEFINITIONS

"All omniedges closest-packed, complex, structural phenomena are omnisymmetrically componented only by tetrahedra and octahedra. Icosahedra, though symmetrical in themselves, will not close-pack with one another or with any other symmetrical polyhedra; deonihedra, Wally however, face-bond together to form open-network octahedra.

= Cite RBF rewrite of SYNENGETICS galley at Sec. 910.01, 19 Dec '73

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Card C00348

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Allspace Filling: Octahedron & Tetrahedron:

See Coupler, (1)(2)

Isotropic Vector Matrix, 19 Dec '73
Twinkle Angle, 19 Dec '73

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Card C00349

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RBF DEFINITIONS

Allspace Filling: Octahedron & Vector Equilibrium:

"The complementarity of the vector equilibrium with the

octahedron permits us to get down to the local and not be afraid of missing the rest of Universe, because we know the fundamental complementation of macro tetra and micro tetra."

- Citation & context at Trigonometric Limit, 22 Jun'72

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Card C00350

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RBF DEFINITIONS

AULSpace Filling: Octahedron ahd Vector Equilibrium:

"Concave octahedra and concave vector equilibria pack together to define the voids of an array of closest packed spheres which, in conjunction with the convex spherical vector equilibria f11] all space. This array suggests how energy trajectories may be distributed through great-eircle geodesic arcs from one sphere to another always passing through the vertexes of the array, which are the vertexes of the vector equilibria and the

points where the spheres touch each other."

Cite Synergetics Illustration #55, caption, 1967
Cpnvky 4 Come AvE