

Secret Of Sankhya:  
Acme Of Scientific  
Unification

By

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Transliterated From

The Sankhya Karika

In Sanskrit

By

Ishwara Krishna

## Abstract

*A correct theory should be simple, logically & numerically consistent and be in consonance with reality. It should be based on an axiomatic foundation, so that the principle of causality is not violated. The permanent foundation for a unified theory that defines all phenomena, at every point in space and time, must be a non-dimensional and scale-invariant formulation, if it is to fulfil the criteria of universality. In a unification paradigm, it is necessary to restrict the controlling parameter to a single variable, if it is to be effective mathematically. From an intellectual, logical and observational standpoint time is the only parameter that can fill the role of a controlling medium. The definition for the real and substantial nature of the substratum on which phenomena is based should evolve from within the theory as a consequence of its axiomatic foundation. The intellectual dichotomy posed by the ordering of polarised concepts such as “maximum and minimum”, “static and dynamic”, “start and finish”, “left and right handedness” etc. should be resolved through an axiomatic unification paradigm, again arising from within the theory. Simplification of logic, rigor of analysis and elimination of conundrums must form a vital part of the derivational process to establish integrity of theoretical conclusions. Since Universal phenomena existed long before the advent of human life, a correct theory must not depend on logic structured through intellectual analysis that is contrary to the observed characteristics of natural phenomena. A classical example in Physics and Cosmology is the assumption that space is a vacuum, void or devoid of substantiality because of the failure of experiments to detect the presumed characteristics of space.*

*Further, since the theoretical derivation forms the foundation for pursuing human activities efficiently, it must be amenable to observation and practical verification, for only then its utility would be confirmed intellectually. The process of verification through observation depends on a relative change which restricts its means to a dynamic parameter such as time. The proof for the completeness of a theory should rest on the unequivocal corroboration of its theoretical derivations, with every type of observational experience which naturally forms an element of physical reality. As a specific case, the spectrum of phenomena observed in parapsychological and spiritual domains have been widely reported through verified first hand accounts, yet there is no place for it in current science, even as a hypothesis. Lastly, since the theory is based on axioms, its proof must be generated from within as a part of its derivational process and should not depend on arbitrary or external observational parameters. A rigorous test for the correctness of a unification paradigm lies in its ability to derive numerical solutions unambiguously, without dependence on constants that are structured through tenuous logic. The establishment of the correctness of a unification paradigm compulsorily leads to the acceptability of predestination as an operating parameter in reality.*

*The foregoing criteria form the derivational base for the unified field theory of Sankhya, (logic of counting in Sanskrit), created by Maharishi Kapilla in a pre-Vedic period. Sankhya forms the core of the Bhagavadgita, embedded in the Mahabharata. Based on the foregoing principle, its axiom based foundation, bound by rigorous logic, using combinatorial mathematics, inexorably leads to an austere formulation which is the epitome of intellectual elegance. It is the only unified field theory in existence that offers a complete scientific and mathematical solution to every aspect of reality, manifest or unmanifest, in space comprising substantial components. The 68 Sanskrit axiomatic theorems or sutras in Sankhya are transliterated, along with its mathematical derivations in part 2, for the first time, as all earlier translators could not decipher its scientific content based on combinatorial mathematics. While it may seem impossible to present a complete theory of manifestation of all forms universal phenomena in just 68 theorems the ingenious method*

of presentation justifies its correctness. In the very first sutra or theorem a method of elliptical negation gives the possibility of deriving factorial 68 numbers of solutions from as many theorems. The logical derivational process is presented below but the complete mathematical proof is given in appropriate chapters.

Counting interactive events between adjacent components, comprising the continuum of space, provides the means but it depends on a ratio of change that involves an interval, defined in Physics as 'time'. Additionally, any interaction between any two objects has three phases, in which there is a compressive collision, a rebounding reversal and an expansive separation. All these three phases too are governed by the interval of time but defined in three different modes as a simultaneous instant of collision, a resonant period of reversal and a sequential interval of separation, respectively. If the sequential interval of separation is less than or equal to the simultaneous instant of collision the interaction becomes undetectable. This is the prime reason why all efforts to detect space (aether) failed totally. Only when the sequential time interval exceeds the numerical value of the instant, the reaction from the interactive cycle becomes measurable and detectable phenomenon emerges. Hence, the cyclic repetition of such interactive states creates stresses that transmigrate across the components forming the continuum of space. Therefore the resonant period that bridges the simultaneous instant with the sequential interval forms the key to solving the puzzle of every type of phenomena, manifest or un-manifest. The foregoing forms the singular theme in Sankhya, defined as the three Tri-Guna states that are the cause of all phenomena in the Universe.

Experience however shows that sequential interactive events involving time can be counted but not those that occur at the same moment or simultaneously or instantly. Ten claps can be counted as such if it occurs one after another but if all ten occur at the same instant it can be counted as only one, causing an anomaly of vanishing counts when actions synchronise. As a direct result of vanishing counts, in a balanced interactive environment, force or acceleration is generated as a compensatory reaction to fill the vacuum caused by the disappearance. However, the vanishing counts turn up as a mass or merged set of counts that act as single unit with a centre of action but with a greater force. This is the only reason a force of any type can be generated and multiplied in a substantial space continuum that forms the fundamental base in Sankhya.

Hence all the spectrum of forces observed and identified in Physics, from gravitation to electromagnetism, are automatically unified, by the singular initiating cause, when interactions act simultaneously, thereby leading to a synchronised and coherent state. All phenomena, without exception, occur simultaneously in a three dimensional space within each cycle. It therefore leads to the necessity of deriving an abstract theory, which predicts the behaviour of all phenomena as the consequence of an axiomatic interactive process that follows a single self similar law of interaction, rigorously, logically and perpetually. The anomalous vanishing of counts due to absolute synchronisation or simultaneous activity provides the prime reason for the generation of force in any dynamic and substantial field of space that is in a balanced state. Therefore Sankhya derivations show that all detectable manifestation, in its most simplistic form is nothing other than the interactive interval detected in three complementary phases of the simultaneous, resonant and sequential states, combinatorially. The conundrum of vanishing of counts due to merging of interactions within a cycle, is identified as a coupling constant that creates the mass and the plethora of forces as strong, weak and electromagnetic in Physics, are due to the three interactive phases of cyclic time.

Sankhya theory provides the unique and precise numerical solution, for the first time in Physics, that defines when exactly the continuum of space begins to act with the characteristics of a quantum field of energy or a mass turns into a charge. It thereby resolves the paradox of 'infinite

energy states' and establishes, the intensely debated reality of a wave function collapse, as a fundamental physical phenomenon in its own right. Sankhyan logic identifies this unique and novel interval of cyclic time, that separates the simultaneous activity from a sequential one or the quantum from the continuum or the mass from a charge, as an axiomatic  $1/151.886^{th}$  ( $T_c$ ) ratio of a cycle, forming the universal key to discriminating the hidden phenomenon from detectable manifestation. The same esoteric ratio defines the holographic form of particulate states that display mass characteristics. Only a mathematical system based on combinatorial counting of interactions allows transparency in verifying its numerical accuracy and certainty. Sankhya, based on the foregoing criteria, forms a complete, futuristic and unified theory of Physics & Cosmology. In Sankhya all numerical solutions are dimensionless ratios, of interactive counts, compared to a standard interactive cycle of 10 counts, which forms the simultaneous state. As a result of the decimal base the entire spectrum of interactive counts can be defined in terms of logarithmic indices. The validity of its principle is confirmed by the precise equivalence of its derivations to experimentally measured values in Physics

It provides unequivocal proof for the existence of an identifiable substratum, without which the Universe of manifested phenomena could never have existed. The substantial nature of space in Sankhya is in direct contradiction to the assumption of a vacuous space in Physics. Additionally, it exposes a new principle for unifying the entire spectrum of dynamic states through a single parametric concept. When stresses created by interactions in space become identical, synchronized and simultaneous along all three axial directions, it merges into a coherent, singular state representing a hologram. The merging of stresses due to synchronisation results in the absorption and hence reduction of interactive count rates but that turn up as an increase in density or mass. Whereas, observable and measurable phenomena emerge only when the merged stresses are released by breaking the coherent state into a state of sequential, time-oriented activity. The foregoing state results when the rate of interaction exceeds the axiomatic numerical ratio  $T_c$  that defines the difference between the quantum and continuum states of space.

Stating it differently, dynamic states with wavelike activity can be detected only when the rate of change is in relative harmonic synchronisation with nodal states as quanta, otherwise it becomes a continuum that cannot be detected. The fact that the motion of a propeller rotating at high speed can be 'stopped' by a strobe light of the required frequency, confirms the principle of the foregoing statement. Combining the foregoing with the fact, that the single law required for such a transition is inherent in the very first interaction between two adjacent states, makes Sankhya into a unique and outstanding theory. For the process of interaction is self-conservative, in a substantial continuum that are populated with 'components'. It provides the unique axiomatic algorithm for a perpetually harmonic and resonant state, thus providing the foundation for eternal dynamism. The most extraordinary aspect of the axiomatic algorithm of the 'perpetual harmonic oscillatory' state (**Pho**) is that it not only derives the neutron, proton and electron masses exactly but also exposes three precise mass values of three hidden states, as the resonant nucleus plus two of its restoring leptonic states that sustain it eternally. And surprisingly in today's Physics these are not even suspected to exist!

Consequent to establishing a real and eternally dynamic continuum in space, the present concept of gravitation as a fundamental theory based on mass, undergoes a metamorphosis into a secondary aspect of resonant holographic states, operating on harmonic spectral laws. The evidence for such a concept already lay, in the experimental (among several) observation, that a feather or canon ball fell to the ground at exactly the same rate; which undoubtedly indicated that mass was neither an inherent nor a controlling parameter. The perpetual harmonic interactive state

of the real continuum sustains the dynamism to display the gamut of manifestation, as just the holographic state of the interactive stresses in space and at the same time provides a perfect theoretical justification for the existence of 'free energy or output greater than input' at the very source of phenomenon. It emphasises a corollary that the concept of velocity in space, as a measure of motion, has to be abandoned. For in a perpetually oscillating medium, only the net algebraic displacement in any direction contributes to the concept of 'velocity'. The algebraic sum of vibratory displacements gives rise to a transmigration of oscillatory stresses which display directional movement that has been interpreted as 'velocity'.

The elementary but profound result, the **Pho** or the 'activity quantum', commences when the algebraic sum of vibratory displacements is zero or the difference in interval is less than the unit axiomatic cycle  $T_c$ . The foregoing therefore leads to simplifying the concept of particulate-states, energy, work and potential. Since the normal state is perpetually dynamic, the particle emerges as an identifiable unit only when the oscillatory rate reduces to harmonic levels and such transitions result in exchange of stress levels that the observer detects as energy, work etc. The sustained change in the interval, between reducing harmonic oscillations, attains significance as work, which provides the logic for the concept of 'space-time' forming the background for the observable states of manifestation. For the same reason, the concept of an inflationary universe must be modified because in a perpetually dynamic substratum, time is just the changed state of an interaction, where activity occurs in a simultaneous mode of an instant or a sequential process involving measurable time. Stating it differently, the concept of density in space takes another meaning, which equates the number of interactions taking place simultaneously or within a single cycle. As already highlighted earlier, the foregoing critical difference is uniquely derived in Sankhya through the axiomatic numerical ratio  $T_c$  that identifies the 'mass or charge' states of a 'quantum of stress' in the substratum.

The significant outcome of the underlying harmony is that every substantial body, be it a galaxy, stellar, planetary, molecular, atomic, particulate or quantum of stress, the same scale invariant ratio enables its derivation, for all of them are only holographic forms on a perpetually dynamic but substantial foundation. In brief, not only is the derivational process in all the complementary states identical, but being based on axioms, there is no flexibility what so ever to change any parameter of proportionality. Humanity has to accept the most thought provoking consequence that nature's laws and processes are inexorably bound to axiomatic states and therefore, destiny. There are no such factors as uncertainty but if thought to exist, it can only be due to misunderstanding of natural law. The resonant axiomatic base leads to iterative calculative procedures, which simplifies numerical formulations and extends scientific understanding of phenomena to its ultimate best. The entire process is rational and logical, the hallmark of intellectual elegance. Sankhya offers humanity this excellence.

The same set of axiomatic derivations, based on self-similarity and scale invariance, that expose the spectral harmony at the nuclear level, also predicts and establishes the stellar harmony in Cosmological phenomena, which has been the focus of serious scientific attention since time immemorial. Sankhya formulations manipulate a single parameter of cyclic time to expose the enormity and variety of the macro-cosmos while underlining with equal validity that its reciprocal, cyclic frequency, dictates the permanent and intriguing potential existing in the micro-cosmos. The same set of parameters, based on self similarity and scale invariance, rules every living form at every observable level. Taking an example, all the life sustaining systems like respiratory, circulatory, digestive, excretory, regenerative and locomotion operate on identical principles from a mouse to a mammoth, as the epitome of self-similarity and scale invariance. The unequivocal conclusion science

*must draw from the above is that clock time or the standard interval has no meaning in a perpetually dynamic environment for instant proportionate reactions would act in its own time or within the cycle of a complete oscillation. The outstanding strength of Sankhyan logic lies in its mathematical ability to provide the prime reason for the phenomena of organic life existing on planetary foundations. Consciousness as the foundation of the living-process is inextricably interwoven into the numerical relationship of harmony with its environment which, humanity has long deified as its spiritual connectivity. Hence any activity, initiated by unbalanced natural forces or human initiatives based on non-awareness of the single unified law of nature can disrupt the harmonious numerical relationship to create catastrophic changes that could adversely affect living processes.*

*Consciousness is the quiescent state of dynamic space and any change in it is interpreted as 'intelligence' by the cerebral network of living organisms. The polarisation of consciousness as 'instinctive-intelligence' impels the incumbents to conform to natural law so that all can coexist in harmony and peace. However, the negative counterpart of the dual nature of the polarization process compels a section of humanity, to take the path of confrontation resulting in the breakdown of the Earth's harmonious environment. Its consequence experienced currently, climate change and global warming, is the direct result of wanton extermination of organic life, which explosively releases a billion times the enthalpy given out by industrial and natural decay processes. The daily process of slaughtering millions of living entities in the name of human food, releases 'thousands of tons' of energy, the spin angular momentum component in the simultaneous state forming the living process and pours out the hidden enthalpy to raise global temperature levels, which science is blissfully unaware of. The reason is extremely simple, for ice melts only due to the availability of latent heat of fusion long before a rise in sensible heat is even measured!*

*Ahimsa is not merely a Gandhian euphemism for non-violence, but the key scientific numerical equivalent needed to balance the harmony of the living environment in the Sankhyan concept of a substantial foundation of universal space. The numerical key to total harmony provides a very important theoretical base for governance. Politics of opportunism must be replaced with the polity of the real nature of the universe if human welfare is to be sustained by its unique law of interaction. The same law also controls all the resources generated by human minds and any lack of discipline in its application will ultimately lead to nullifying its very product as cerebral skills attained through diligent analysis and persistent development. Fiscal prudence is a consequential by product of applying the same unique law of nature, to maintain a balance between conflicting resource demands. The proof of the foregoing statement lies in nature's perpetual dynamism that is self conservative, which principle directs human economic activities to plough back profits as savings, for squandering it will certainly bring all welfare activities to a halt through the 'decaying process' of consuming the resource itself.*

*In fact there is no activity, human or other, that fall outside the ambit of the self-similar rule of interaction, for all manifestation is just the holographic presentation of dynamic space which forms the foundation. The Vedic term Maya is in fact a Sanskrit definition for a hologram, for it becomes an illusion if the fundamental supporting base remains hidden. Finally, its proof lies in its unifying logic that enables the derivation of every known and yet to be known constant in Physics and Cosmology, axiomatically, accurately and realistically. Though Sankhya has been in existence for thousands of years, yet it has remained a total secret. Should Sankhya be ignored any longer?*

*All the foregoing sequence of logic could be pre-empted by taking an intuitive and objective approach. Since the concept of an elemental foundation based on emptiness is logically impossible to formulate, the only intellectual recourse left is to identify the substratum of the*

*phenomenal Universe with elemental components defined by qualities that arise as a consequence of its axiomatic foundation. Plurality of components, naturally lead to interactive states, creating a variety of stresses which must transmigrate to reach equilibrium. The resulting spectrum of oscillatory or vibratory states, produce infinity of phenomenal forms which the observer, being an inseparable part of, learns to differentiate the changes, in his attempt to understand and formulate a theoretical process. It is extremely enlightening to note that by following the foregoing logic, the entire mathematical formulation of universal laws reduces to deriving the axiomatic ratios for radius to cycle, number of interactions per cycle, radial expansion to radius and volumetric expansion to stable volume. All the so called constants in Physics are only the permutations and combinations of those values and are derived in the relevant sections further on that match such numerical values in Physics exactly, confirming the correctness of the axiomatic derivational process.*

*As is evident from the foregoing logic, the differences can be quantified economically and logically by a simple process of counting the interactive states, as a comparative ratio, related to an axiomatic cycle, forming an unequivocal cyclic-time-base. Theoretical objectivity demands the exclusion of arbitrarily limiting parameters, which then compels the inclusion of interactive count ratios less than unity too. On pursuing the concept further, it leads to formulating 'ratios less than unity' as simultaneous, dense, or compressive interactive states whereas the 'larger than unity ratio' represents sequential, amorphous or expansive phases, with the unique transitional cyclic ratio  $T_c$  bridging the two. The two aspects just represent the time and frequency parameters in science. The foregoing process necessarily leads to the derivation of phenomena that remain hidden, giving rise to 'uncertainty', which current science labels as quantum mechanical, parapsychological, black hole, dark matter and dark energy phenomena. Since there is overwhelming observational evidence for the latter set of identities, the need for a substantial space foundation becomes a prerequisite.*

*The casual inquirer created beliefs to explain phenomena but the scientific researcher transposed it to a hypothesis and did not rest until it was converted to a theoretical certainty through numerical rigor. The sincere and dedicated scientific researcher can rest assured that every aspect of manifestation can be derived as an inseparable property of the identifiable continuum of space, much before the emergence of states that Physics defines as particles and waves, which would indeed form the greatest surprise in science. The Sankhyian primacy lies in exposing an intellectual technique, called Siddhi in Sanskrit that enables everyone and anyone to mentally experience all phenomena because human cerebration too follows the same interactive spectral process. For the human thought form is a real holographic phenomenon. It has to be if all phenomenal manifestation is indeed a holographic creation.*

*The evolution of present day Physics was based on conjectural logic, identified as an innovative process of rationalisation and the subsequent attempts at its justification led to introduction of concepts unsupported by natural phenomena. As an example, the enigmatic concept of gravity in Physics arose from the introduction of 'intellectually unjustifiable forces acting at a distance between masses' whereas the Sankhyian foundation for the same phenomenon is based on the existence of perpetual interactive states between elemental components in the substratum of space and its variations cause the acceleration. It in fact reduces the well known set of three 'Laws of Newton' to just a single law. Action and reaction are indeed equal and opposite but in three modes of 'cyclic time' witnessed by all humanity as simultaneous action, cyclic activity and sequential movement. The thought provoking logic inherent in the foregoing sentence is that there is no way for an observer to count, detect or witness a cyclic interactive event till it is completed. The foregoing fact has indeed been the source of the "Principle of uncertainty" and 'Quantum mechanics'. Nor is there any method that allows the observation and measurement of single or two dimensional*

parameter in a three dimensional reality but the entire mathematical base in Physics rests on Euclidian, Riemannian and Gaussian forms of geometry, which has given rise to the puzzle of missing dark matter and energy. The foregoing analysis leads to a satisfactory intellectual conclusion that nothing indeed changes in the Universe except time, for all phenomenon is only the holographic state of a permanent foundation. Should not all of humanity get to know these facts?

While, the known history of human intellectual advancement has been based on a gradual emancipation from nascent thoughts arising out of primitivism, supported by an evolving anthropomorphic concept, the Sankhyan foundation based on axioms, leads to the acceptability of the human ideal of divine states, as a natural corollary to numerical combinatorial and axiomatic principles inherent in dynamic phenomena. For axioms cannot be disproved and hence exist eternally. It is unfortunate but true that Vedic science, though revered for its apparent religious connectivity, has been mistranslated, misrepresented and misunderstood beyond intellectual redemption. The correct interpretation of the sixty eight Sankhyan sutras or theorems, raises it to the ultimate level that current Physics and Cosmology can only hope to attain while at the same time it provides precise proof based on numerical axioms. As a case to point there is a conceptual error in planetary observation. The observed and measured radii of minor planets represent the hard or solid inner surface whereas the same radial parameter represents the outer atmospheric or vaporous boundary of the Sun and major planets. This observational error has prevented the unification of gravitational theory with the so called 'other forces', for it will be shown further on that both Avogadro's' hypothesis and Newton's theory are based on a single unified concept that is still not exposed in Physics!

Since axioms cannot ever be disproved, its eternal character confers the mantle of divinity. It satisfies both heart and mind for it ensures that human intellectuality, like everything else, forms a part of the human concept of divinity even without explicitly submitting to a divine source. The foregoing leads to another positive conclusion that the much sought after concept of spirituality is not based on the state of one's mind or religious belief but forms the fundamental state of the dynamic substratum forming the base for holographic manifestation. It provides the knowledge to be democratic and free of guilt feelings by submitting to the unique law of nature as Dharma (contained interactions in Sanskrit), the epitome of human salvation or nirvana & kaivalya in the Vedas. The axiomatic derivation leads to the future unified model of religion and science wherein a single self similar law of universal manifestation operates unfailingly at every level as Dharma. Finally, humanity can reap the greatest gift of free energy, the opening refrain of the Rig Veda. Input less than output, considered a scientific impossibility, is an inviolable part of Sankhyan law that operates in the perpetual oscillatory state of substantial space. It is based on an irrefutable axiomatic logic that any change in a perpetual state of dynamism, forces it to return to its original state of balance, which the algorithm for the **Pho** state proves eminently. The foregoing indicates that there are so many surprises, which raises the question whether the Physicists of today will be flexible and objective enough to investigate Sankhya?

Perhaps they may not be prepared for another century because the shift in paradigm is as extreme as the transition from Aristotle's concepts to Kepler's mathematical derivations. The obvious reason against such a paradigm shift lies in the plethora of principles, theories and postulates that has created a veritable Augean stable that will daunt any 'Hercules' of science today. But there is an extremely simple solution. If researchers could give up their penchant for pre-defining or postulating aspects of nature they know little about, then they would find that the observable reality is no different from its unobservable aspects. Intellectually, any effort at creating postulates must be preceded by the simple question "why is it necessary?" The acme of Sankhyan logic lies in



*starting from fundamental aspects that nature has already defined in the form of axioms. For axioms can neither be 'invented nor disproved' and provides the eternal and logical bedrock for a perfect intellectual foundation. Sankhya is truly a theory that has certainly not been influenced by human intellectualism but on the contrary it definitely provides the elemental foundation for attaining intellectual excellence, the prime requirement to maintaining the highest level of human welfare.*

*The substantial field in space in the Pbo state, derived in Sankhya through axioms, provides an unlimited source of energy in the potential state. Therefore the direction of all scientific and technological developments in the future will necessarily be compelled towards the extraction of energy from the field of space. The main advantage will be in overcoming the efficiency barrier, by creating overunity potential energy converters which will once and for all unchain the bondage to 'fuel based energy generation' of all varieties, including nuclear and fossil varieties. Even today several inventions exist that generate 'output more than input' but the lack of a theoretical foundation has not only pushed them underground but the inventors too have been belittled on the grounds that it violates so called primitive principles that Physics deals with.*

*The extraordinarily rewarding areas of scientific and technological developments in the future, based on Sankhyan Tri-Guna derivations, are overunity power generation from space, levitation, teleportation, transmutation, materialisation, disaster forecasting of earthquakes, climate and genetic changes due to critical planetary transits among many others. All the foregoing developments coming mainly from the hidden spectrum of space depend on the critical ratio Tc and in the following chapters the numerical derivations are shown. While the above may seem difficult to achieve from the present level of Physics, the Sankhyan derivations simplify the process of understanding of manifestation in space to be no different to that which occurs in a large expanse of air or water, for ultimately the only parameter manipulated mathematically is cyclic time in three modes as the simultaneous instant, the resonant period and sequential interval as the three Gunas.*

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