

Principles Of Evolution From The Planck Epoch To Complex Multicellular Life

Gravity, Black Holes, and the Very Early Universe
Dialectics of the Big Bang and the Absolute Existence of the Multiverse
Cosmic Science A Wave Theory of Universal Resonance [Volume 1]
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here it is in a nutshell the history of one genius's most crucial work discoveries that were to change the face of modern physics in the early 1900s albert einstein formulated two theories that would forever change the landscape of physics the special theory of relativity and the general theory of relativity respected american academic professor tai chow tells us the story of these discoveries he details the basic ideas of einstein including his law of gravitation

deftly employing his inimitable writing style he goes on to explain the physics behind black holes weaving into his account an explanation of the structure of the universe and the science of cosmology

this interdisciplinary book develops a dialectical narrative about the beginning of the universe by combining hegel s philosophy with texts about the big bang theory scientific accounts of the big bang indicate that the first second of existence was an eventful period in which the universe progressed through six different epochs bringing together cosmological narratives and hegel s writings particularly the science of logic gregory phipps reads this movement as a dialectical progression he also draws upon hegel s conception of absolutes to outline a model of the multiverse in doing so phipps brings hegel s philosophy into dialogue with contemporary science arguing that hegelian readings of the first second offer speculative snapshots of a hypothetical multiverse that contains the full and probably infinite scope of existence for scholars and enthusiasts alike dialectics of the big bang and the absolute existence of the multiverse is a thought provoking exploration of the crosscurrents between philosophy science and narrative inviting readers to contemplate the profound mysteries of the cosmos

this book is an exhilarating journey through the realms of space science and astronomy uncovering the universe s mysteries and humanity s unending pursuit of cosmic understanding beginning with an exploration of astronomy s historical roots and pivotal breakthroughs it showcases our enduring fascination with the stars the book then delves into the formation of the universe tracing the narrative of the big bang and the evolution of celestial bodies it offers insights into the composition of the cosmos revealing the elements and dark matter shaping galaxies and stars it also navigates the complexities of spacetime and gravity leading to the concept of black holes wormholes and time travel it also takes through humanity s cosmic endeavors from satellites to mars missions the book envisions the colonization of mars considers its challenges and explores the future of space exploration inspiring readers to dream beyond boundaries

document from the year 2018 in the subject physics theoretical physics grade n a language english abstract the following text is divided into four main

parts the first of which deals with the theory and model of a unitary universal cohesive field including a basic guide to its possible mathematical treatment and the second with the derivation of a value for the fine structure constant based on its geometric principles within the context of the implication of this constant in the conventional descriptions of electron spin in particular for example in the description of anomalous electron magnetic dipole moment using gs factor while the primary aim of the first part is to establish a model within which a geometric basis in mathematical harmonics may be proposed for the value of that constant the more general intention is to introduce a viable model of the operation of an entirely exclusive singular cohesive principle for the consideration of any and all data according to this conception of a unitary field therefore to establish that the existing descriptions and equations of quantum electro dynamics and quantum field theory may with an appropriately unifying perspective provided by such a model be correlated directly with a real physical dynamic the wave principle inherent within such a unitary cohesive field it is further suggested that such a basis in a real cohesive principle and wave dynamic will serve to resolve problems in the mathematical description of essentially abstract fields and wave functions more particularly those associated with renormalisation techniques in perturbation theory the argument is therefore essentially twofold first that the lattice model of the cohesive field proposed may be regarded as an adequate description of cohesive dynamics within an inherently integrating unity or unitary field thus that its basic geometric or harmonically defined ratios may be applied to a description of reality in conventionally quantitative terms of mass velocity charge and more particularly to the relation between such quantities described by various physical and dimensionless constants whose values are here considered to be based in the harmonic relations embodied in such ratios and second that the application of such ratios to the derivation of a value for the fine structure constant may be generalised to the explanation of its context specifically in electron dynamics according to the principles of the model with respect to such properties and quantities as electron angular momentum and charge e

an astrophysicist presents an in depth yet accessible tour of the universe for lay readers while conveying the excitement of astronomy how is a galaxy billions of lightyears away connected to us is our home nothing more than a tiny speck of blue in an ocean of night in this exciting tour of a universe far larger than we can imagine cosmologist paul m sutter emphasizes how amazing it is that we are part of such a huge complex and mysterious place through

metaphors and uncomplicated language suttur breathes life into the science of astrophysics unveiling how particles forces and fields interplay to create the greatest of cosmic dramas touched with the author s characteristic breezy conversational style which has made him a breakout hit on venues such as the weather channel the science channel and his own popular ask a spaceman podcast he conveys the fun and wonder of delving deeply into the physical processes of the natural universe he weaves together the past and future histories of our universe with grounded descriptions of essential modern day physics as well as speculations based on the latest research in cosmology topics include our place in the milky way galaxy the cosmic web a vast web like pattern in which galaxies are arranged the origins of our universe in the big bang the mysteries of dark matter and dark energy how science has dramatically changed our relationship to the cosmos conjectures about the future of reality as we know it and more for anyone who has ever stared at the starry night sky and wondered how we humans on earth fit into the big picture this book is an essential roadmap

an examination of areas in astrophysics and cosmology which includes an overview of the revolution in extragalactic x ray astronomy triggered by the rosat satellite the current state of the microwave background star formation in galaxies and galaxy evolution and inflation and early universe

offers more than one thousand entries detailing the major ideas discoveries and issues in physics along with profiles of notable individuals and a chronology

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