

Arthur M. Young

*Author of The Reflexive Universe,
The Geometry of Meaning, and others.*

Mathematics, Physics & Reality

T W O E S S A Y S

Mathematics Physics And Reality

Wolfgang Smith



Mathematics Physics And Reality:

Mathematics, Physics and Reality Arthur M. Young, 1990-09-01 **Mathematics, Physics and Reality** Arthur M. Young, 1990 *Physics Of Reality, The: Space, Time, Matter, Cosmos - Proceedings Of The 8th Symposium Honoring Mathematical Physicist Jean-pierre Vigiér* Richard L Amoroso, Louis H Kauffman, Peter Rowlands, 2013-09-18 A truly Galilean class volume this book introduces a new method in theory formation completing the tools of epistemology It covers a broad spectrum of theoretical and mathematical physics by researchers from over 20 nations from four continents Like Vigiér himself the Vigiér symposia are noted for addressing avant garde cutting edge topics in contemporary physics Among the six proceedings honoring J P Vigiér this is perhaps the most exciting one as several important breakthroughs are introduced for the first time The most interesting breakthrough in view of the recent NIST experimental violations of QED is a continuation of the pioneering work by Vigiér on tight bound states in hydrogen The new experimental protocol described not only promises empirical proof of large scale extra dimensions in conjunction with avenues for testing string theory but also implies the birth of the field of unified field mechanics ushering in a new age of discovery Work on quantum computing redefines the qubit in a manner that the uncertainty principle may be routinely violated Other breakthroughs occur in the utility of quaternion algebra in extending our understanding of the nature of the fermionic singularity or point particle There are several other discoveries of equal magnitude making this volume a must have acquisition for the library of any serious forward looking researchers **Trick or Truth?** Anthony Aguirre, Brendan Foster, Zeeya Merali, 2016-02-20 The prize winning essays in this book address the fascinating but sometimes uncomfortable relationship between physics and mathematics Is mathematics merely another natural science Or is it the result of human creativity Does physics simply wear mathematics like a costume or is math the lifeblood of physical reality The nineteen wide ranging highly imaginative and often entertaining essays are enhanced versions of the prize winning entries to the FQXi essay competition Trick or Truth which attracted over 200 submissions The Foundational Questions Institute FQXi catalyzes supports and disseminates research on questions at the foundations of physics and cosmology particularly new frontiers and innovative ideas integral to a deep understanding of reality but unlikely to be supported by conventional funding sources **Our Mathematical Universe** Max Tegmark, 2015-02-03 Max Tegmark leads us on an astonishing journey through past present and future and through the physics astronomy and mathematics that are the foundation of his work most particularly his hypothesis that our physical reality is a mathematical structure and his theory of the ultimate multiverse In a dazzling combination of both popular and groundbreaking science he not only helps us grasp his often mind boggling theories but he also shares with us some of the often surprising triumphs and disappointments that have shaped his life as a scientist Fascinating from first to last this is a book that has already prompted the attention and admiration of some of the most prominent scientists and mathematicians **The Road to Reality** Roger Penrose, 2005 The Road to Reality is the most important and ambitious work

of science for a generation It provides nothing less than a comprehensive account of the physical universe and the essentials of its underlying mathematical theory It assumes no particular specialist knowledge on the part of the reader so that for example the early chapters give us the vital mathematical background to the physical theories explored later in the book Roger Penrose's purpose is to describe as clearly as possible our present understanding of the universe and to convey a feeling for its deep beauty and philosophical implications as well as its intricate logical interconnections The Road to Reality is rarely less than challenging but the book is leavened by vivid descriptive passages as well as hundreds of hand drawn diagrams In a single work of colossal scope one of the world's greatest scientists has given us a complete and unrivalled guide to the glories of the universe that we all inhabit Reality Without Realism Arkady Plotnitsky,2022-01-01 This book presents quantum theory as a theory based on new relationships among matter thought and experimental technology as against those previously found in physics relationships that also redefine those between mathematics and physics in quantum theory The argument of the book is based on its title concept reality without realism RWR and in the corresponding view the RWR view of quantum theory The book considers from this perspective the thinking of Bohr Heisenberg Schrödinger and Dirac with the aim of bringing together the philosophy and history of quantum theory With quantum theory the book argues the architecture of thought in theoretical physics was radically changed by the irreducible role of experimental technology in the constitution of physical phenomena accordingly no longer defined independently by matter alone as they were in classical physics or relativity Or so it appeared For quantum theory the book further argues made us realize that experimental technology beginning with that of our bodies irreducibly shapes all physical phenomena and thus makes us rethink the relationships among matter thought and technology in all of physics **Physics and Vertical Causation** Wolfgang Smith,2019-01-15 Wolfgang Smith accomplishes a re integration of the physical sciences into a worldview banished since the Enlightenment yet perfectly accommodative of every legitimate discovery of science This worldview proves to be precisely what is needed to resolve the quandary of the quantum paradox which has stymied theoretical physicists since 1927 **Why Math Must Replace Science** Mike Hockney,2014-11-03 The greatest catastrophe in intellectual history was to regard physics as real and mathematics as an unreal abstraction In fact mathematics is noumenal true reality and physics is phenomenal illusory reality Mathematics tells you what things are in themselves and physics tells you how they appear to us Mathematics is the perfect ground of existence defined by the God Equation It's the source of causation determinism and objective reality all of the things now formally denied by physics which claims that observable reality is indeterministically born of unreal potentiality wavefunctions It's time to replace the scientific method with the mathematical method It's time to recognize that true reality is intelligible not sensible noumenal not phenomenal unobservable not observable metaphysical not physical hidden not manifest rationalist not empiricist necessary not contingent Don't follow the crowd Think for yourself **Particle of Life** Michail Zak,2014 The book presents a mathematical answer to the ancient philosophical question How

mind is related to matter It proves that in the mathematical world the bridge from matter to mind requires extension and modification of quantum physics The proposed dynamical model that captures behaviour of living things is based upon the extension of the First Principles of classical physics to include the phenomenological behaviour of living systems i e to develop a new mathematical formalism within the framework of classical dynamics that would allow one to capture the specific properties of natural or artificial living systems The proposed mathematical formalism is quantum inspired It is based upon coupling the classical dynamical system representing the motor dynamics with the corresponding Liouville equation describing the evolution of initial uncertainties in terms of the probability density and representing the mental dynamics Along with the main objective the book addresses fundamental departures from classical views on some unsolved problems in quantum mechanics By moving from the Schrödinger to the Madelung equation it demonstrates that randomness in quantum mechanics has the same mathematical origin as that in turbulence and chaos It illuminates the origin of entanglement and interference of probabilities These results are reinforced by similar properties of L particle that are based upon a modification of the Madelung equation Therefore the model of L particle fits well into the mathematical formalism of modern physics and that rouses a belief that L particle is not only a mathematical abstraction but a reality as well

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