The Singular Universe And Reality Of Time A Proposal In Natural Philosophy Roberto Mangabeira Unger

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The Universe in Zero Words Penguin
This title is a self-contained follow-up to Understanding Our Unseen Reality: Solving Quantum Riddles (2015). Intended for the general reader but including more advanced material and an appendix of technical references for physics students and researchers, it reviews the basics of the transactional interpretation of quantum mechanics in its newer incarnation as a fully relativistic, realist interpretation of quantum theory, while embarking on further explorations of the implications of quantum theory. This interpretation is applied to new experiments and alleged 'paradoxes' that are found to be fully explicable once various misconceptions are identified.There is currently much disagreement about the meaning of quantum theory, as well as confusion about the implications of various experiments such as 'weak measurements,' 'quantum eraser,' and delayed choice. This book provides a clear way forward, presenting new developments and elaborating a promising interpretational approach that has completely nullified earlier objections (such as the Maudlin objection). It also explains why some prominent competing interpretations, such as 'decoherence' in an Everettian ('Many Worlds') approach, do not work as advertised.Adventures in Quantumland: Exploring Our Unseen Reality offers a fully relativistic interpretation of quantum mechanics with no discontinuity between non-relativistic and relativistic domains and shows how quantum theory allows for free will and for reconciliation of science and spiritual traditions.Related Link(s)

The Life of the Cosmos Basic Books
Cosmological Koans invites the reader into an intellectual adventure of the highest order. Through more than fifty Koans—pleasingly paradoxical vignettes following the ancient Zen tradition—leading physicist Anthony Aguirre takes the reader across the world from West to East, and through ideas spanning the age, breadth, and depth of the Universe. Using these beguiling Koans (Could there be a civilization on a mote of dust? How much of your fate have you made? Who cleans the universe?) and a flair for explaining complex science, Aguirre covers cosmic questions that scientific giants from Aristotle to Galileo to Heisenberg have grappled with, from the meaning of quantum theory and the nature of time to the origin of multiple universes. A playful and enlightening book, Cosmological Koans explores the strange hinterland between the deep structure of the physical world and our personal experience of it, giving readers what Einstein himself called “the most beautiful and deepest experience” anyone can have: a sense of the mysterious.

Helgoland John Hunt Publishing
“A great read… Goldberg is an excellent guide.”—Mario Livio, bestselling author of The Golden Ratio Physicist Dave Goldberg speeds across space, time and everything in between showing that our elegant universe—from the Higgs boson to antimatter to the most massive group of galaxies—is shaped by hidden symmetries that have driven all our recent discoveries about the universe and all the ones to come. Why is the sky dark at night? If there is anti-matter, can there be anti-people? Why are past, present, and future our only options? Saluting the brilliant but unsung female mathematician Emmy Noether as well as other giants of physics, Goldberg answers these questions and more, exuberantly demonstrating that symmetry is the big idea—and the key to what lies ahead.

Information—Consciousness—Reality Penguin
If we have learned anything from recent advances in cosmology and astronomy, it is that we have only barely begun to comprehend the vastness of our universe and all that it contains. For Christians, this raises some fascinating questions: If there are intelligent beings out there, what would be their relationship to what Christianity claims is a special history on Earth of life with God? Would the fact of persons on other planets banish or modify our understanding of God? Would it reduce the importance of Jesus? What role might goodness and evil play in extraterrestrial civilizations? Might God have incarnated himself among other races of creatures, as he became incarnate as Jesus among us? Respectful of the sciences that disclose the reality of the universe, Thomas O'Meara wonders about good and evil, intelligence and freedom, revelation and life as they might exist in other galaxies. In this book, one possible aspect of the universe we live in meets the perspective of Christian revelation.

Mind and Cosmos Bloomsbury Publishing
"A riveting tour of the cosmos from one of the brightest minds in astrophysics." —The Washington Post A revolutionary new account of our universe’s creation—and a breathtaking exploration of the landscape from which we sprang—from one of the world’s most celebrated cosmologists What came before the Big Bang, and what exists outside of the universe it created? Until recently, scientists could only guess at what lay past the edge of space-time. However, as pioneering theoretical physicist Laura Mersini-Houghton explains, new scientific tools are now giving us the ability to peer beyond the limits of our universe and to test our theories about what is there. And what we are finding is upending everything we thought we knew about the cosmos and our place in it. Mersini-Houghton is no stranger to boundaries—or to pushing through them. As a child growing up in Communist Albania, she discovered a universe beyond her walled-off world through the study of math and science, and through music. As a female cosmologist in a male-dominated field, she transcended the limits that society and her profession tried to place on her. And as a trailblazing researcher, she helped to revolutionize the study of our universe by revealing that, far from living in a cosmic Albania, with a world that ends at its borders, we are part of a larger family of universes—a multiverse—that holds wonders we are only beginning to unlock. Mersini-Houghton’s groundbreaking research suggests that we sit in a quantum landscape whose peaks and valleys hide a multitude of other universes, and even hold the secret to the origins of existence itself. Recent evidence has revealed the signatures of such sibling universes in our own night sky, confirming Mersini-Houghton’s theoretical work and offering humbling evidence that our universe is just one member of an unending cosmic family. The incredible scientific saga of one woman’s mind-expanding journey through the multiverse, Before the Big Bang will reshape our understanding of humanity’s place in the unfathomable vastness of the cosmos.

Vast Universe Macmillan
Dynamic Structure of Reality makes available in English some of the most mature thought of the modern Spanish philosopher Xavier Zubiri. He first presented this material as a set of 1968 public lectures in Madrid. They were collected, edited, and published in 1989 as Estructura dinámica de la realidad. In 1962 Zubiri had published Sobre la esencia (On essence), a work of metaphysics that was praised by critics with one qualification: its treatment of reality was too static. The 1968 course was devised as a response to those critics. Dynamic Structure of Reality retraces the road Hegel traveled concerning the creation of a self and how that self is realized by an interplay between spirit and nature. Like his great predecessor José Ortega y Gasset, and like his great Jewish contemporary Emmanuel Levinas, Zubiri takes religion in all seriousness and locates its questions within the questions of modern philosophy. In harmony with science, he advances a new idea of becoming. Reality, not being, becomes. As reality’s traits are revealed, in different degrees, reality resembles God, the universal self-giver. Zubiri systematically touches on many disciplines to show the varieties of self-giving--throughout the universe--of structural dynamism.

PROCESS AND REALITY Springer
What could be a more compelling read than a book that explains the greatest mysteries known to man in one fell swoop. Who is God? What happens after we die? What the heck is quantum entanglement? Why did Dolly’s braces disappear in the movie "Moonraker?" Our reality is not what it appears to be. The latest physics experiments demonstrate that an objective reality doesn’t exist. And no one truly knows what consciousness is or where the mind resides. Strange interconnectedness, anomalous events, and changing histories confound even the most open-minded of scientists. No single theory seems to be able to explain it all. Until now.

Understanding Our Unseen Reality: Solving Quantum Riddles Penguin
In this cleverly conceived book, physicist Robert Gilmore makes accessible some complex concepts in quantum mechanics by sending Alice to Quantumland-a whole new Wonderland, smaller than an atom, where each attraction demonstrates a different aspect of quantum theory. Alice unusual encounters, enhanced by illustrations by Gilmore himself, make the Uncertainty Principle, wave functions, the Pauli Principle, and other elusive concepts easier to grasp.

Three Roads To Quantum Gravity Penguin
PaGaian Cosmology brings together a religious practice of seasonal ritual based in a contemporary scientific sense of the cosmos and female imagery for the Sacred. The author situates this original synthesis in her context of being female and white European transplanted to the Southern Hemisphere. Her sense of alienation from her place, which is personal, cultural and cosmic, fires a cosmology that re-stories Goddess metaphor of Virgin-Mother-Crone as a pattern of Creativity, which unfolds the cosmos, manifests in Earth's life, and may be known intimately. PaGaian Cosmology is an ecospirituality grounded in indigenous Western religious celebration of the Earth-Sun annual cycle. By linking to story of the unfolding universe this practice can be deepened, and a sense of the Triple Goddess-central to the cycle and known in ancient cultures-developed as a dynamic innate to all being. The ritual scripts and the process of ritual events presented here, may be a journey into self-knowledge through personal, communal and ecological story: the self to be known is one that is integral with place. PaGaian Cosmology may be used as a resource for individuals or groups seeking new forms of devotional expression and an Earth-based pathway to wisdom within.

The Singularity Is Near Vintage
What distinguishes this book from other contemporary treatises touching upon cosmology is its conception of the tripartite cosmos. This conception proves to be crucial to resolving three of the most baffling questions of contemporary science, beginning with the measurement problem of quantum theory. What is perhaps most astonishing of all, however, is the fact that this treatise is comprehensible to the educated layman. It will turn your world right-side up! Wolfgang Smith graduated from Cornell at age eighteen with majors in physics, mathematics, and philosophy. He subsequently contributed a theoretical solution to the re-entry problem for space flight. After taking his doctorate in mathematics at Columbia, he served for thirty years as professor of mathematics at M.I.T., U.C.L.A., and Oregon State University. Smith then devoted himself to correcting the fallacies of scientistic belief, focusing on foundational problems pertaining to quantum theory and visual perception by way of the traditional tripartite cosmology. The Philos-Sophia Initiative Foundation's documentary on his life and work, The End of Quantum Reality, is now available on disc and digital platforms worldwide. Visit theendofquantumreality.com for more information.

Bottoming Out the Universe Oxford University Press
"It would be hard to imagine a better guide to this difficult subject." -- Scientific American In Three Roads to Quantum Gravity, Lee Smolin provides an accessible overview of the attempts to build a final "theory of everything." He explains in simple terms what scientists are talking about when they say the world is made from exotic entities such as loops, strings, and black holes and tells the fascinating stories behind these discoveries: the rivalries, epiphanies, and intrigues he witnessed firsthand. "Provocative, original, and unsettling." -- The New York Review of Books "An excellent writer, a creative thinker." -- Nature

House of Leaves Penguin
This book explains the fascinating world of quarks and leptons and the forces that govern their behavior. Told from an experimental physicist's perspective, it forgoes mathematical complexity, using instead particularly accessible figures and apt analogies. In addition to the story of quarks and leptons, which are regarded as well-accepted fact, the author (who is a leading researcher at one of the world's highest energy particle physics laboratories) also discusses mysteries at both the experimental and theoretical frontiers, before tying it all together with the exciting field of cosmology and indeed the birth of the universe itself.

Einstein's Unfinished Revolution Henry Holt
The modern materialist approach to life has conspicuously failed to explain such central mind-related features of our world as consciousness, intentionality, meaning, and value. This failure to account for something so integral to nature as mind, argues philosopher Thomas Nagel, is a major problem, threatening to unravel the entire naturalistic world picture, extending to biology, evolutionary theory, and cosmology. Since minds are features of biological systems that have developed through evolution, the standard materialist version of evolutionary biology is fundamentally incomplete. And the cosmological history that led to the origin of

life and the coming into existence of the conditions for evolution cannot be a merely materialist history, either. An adequate conception of nature would have to explain the appearance in the universe of materially irreducible conscious minds, as such. Nagel's skepticism is not based on religious belief or on a belief in any definite alternative. In Mind and Cosmos, he does suggest that if the materialist account is wrong, then principles of a different kind may also be at work in the history of nature, principles of the growth of order that are in their logical form teleological rather than mechanistic. In spite of the great achievements of the physical sciences, reductive materialism is a world view ripe for displacement. Nagel shows that to recognize its limits is the first step in looking for alternatives, or at least in being open to their possibility.

The Universe in the Rearview Mirror World Scientific

From quantum to biological and digital, here eminent scientists, philosophers and theologians chart various aspects of information.

Digital Consciousness: A Transformative Vision Harvard University Press

Named a Best Book of 2021 by the Financial Times and a Best Science Book of 2021 by The Guardian “Rovelli is a genius and an amazing communicator… This is the place where science comes to life.” ?Neil Gaiman “One of the warmest, most elegant and most lucid interpreters to the laity of the dazzling enigmas of his discipline...[a] momentous book” ?John Banville, The Wall Street Journal A startling new look at quantum theory, from the New York Times bestselling author of Seven Brief Lessons on Physics, The Order of Time, and Anaximander. One of the world's most renowned theoretical physicists, Carlo Rovelli has entranced millions of readers with his singular perspective on the cosmos. In Helgoland, he examines the enduring enigma of quantum theory. The quantum world Rovelli describes is as beautiful as it is unnerving. Helgoland is a treeless island in the North Sea where the twenty-three-year-old Werner Heisenberg made the crucial breakthrough for the creation of quantum mechanics, setting off a century of scientific revolution. Full of alarming ideas (ghost waves, distant objects that seem to be magically connected, cats that appear both dead and alive), quantum physics has led to countless discoveries and technological advancements. Today our understanding of the world is based on this theory, yet it is still profoundly mysterious. As scientists and philosophers continue to fiercely debate the meaning of the theory, Rovelli argues that its most unsettling contradictions can be explained by seeing the world as fundamentally made of relationships rather than substances. We and everything around us exist only in our interactions with one another. This bold idea suggests new directions for thinking about the structure of reality and even the nature of consciousness. Rovelli makes learning about quantum mechanics an almost psychedelic experience. Shifting our perspective once again, he takes us on a riveting journey through the universe so we can better comprehend our place in it.

The Left Alternative Springer Science & Business Media

Cosmology is in crisis. The more we discover, the more puzzling the universe appears to be. How and why are the laws of nature what they are? A philosopher and a physicist, world-renowned for their radical ideas in their fields, argue for a revolution. To keep cosmology scientific, we must replace the old view in which the universe is governed by immutable laws by a new one in which laws evolve. Then we can hope to explain them. The revolution that Roberto Mangabeira Unger and Lee Smolin propose relies on three central ideas. There is only one universe at a time. Time is real: everything in the structure and regularities of nature changes sooner or later. Mathematics, which has trouble with time, is not the oracle of nature and the prophet of science; it is simply a tool with great power and immense limitations. The argument is readily accessible to non-scientists as well as to the physicists and cosmologists whom it challenges.

The Singular Universe and the Reality of Time Princeton University Press

This open access book chronicles the rise of a new scientific paradigm offering novel insights into the age-old enigmas of existence. Over 300 years ago, the human mind discovered the machine code of reality: mathematics. By utilizing abstract thought systems, humans began to decode the workings of the cosmos. From this understanding, the current scientific paradigm emerged, ultimately discovering the gift of technology. Today, however, our island of knowledge is surrounded by ever longer shores of ignorance. Science appears to have hit a dead end when confronted with the nature of reality and consciousness. In this fascinating and accessible volume, James Glattfelder explores a radical paradigm shift uncovering the ontology of reality. It is found to be information-theoretic and participatory, yielding a computational and programmable universe.

PaGaian Cosmology Cambridge University Press

In what kind of world and for what kind of thought is time real, history open, and novelty possible? In what kind of world and for what kind of thought does it make sense for a human being to look for trouble rather than to stay out of trouble? In this long-awaited work of general philosophy, Roberto Mangabeira Unger proposes a radical reorientation of established ideas about nature, mind, society, politics, and religion. He shows how we have to change our beliefs if we are to succeed in doing justice to our most distinctive contemporary experiences, discoveries, and ideals. The Self Awakened mobilizes the resources of several philosophical traditions, and develops the unrecognized revolutionary implications of the most influential of these traditions today--pragmatism. Avoiding technical jargon and needless complication, this book makes a case for philosophy as the supreme activity of the intellect at war, insisting on its power to deal with what matters most.

The Dream Universe iUniverse

A vivid and captivating narrative about how modern science broke free of ancient philosophy, and how theoretical physics is returning to its unscientific roots In the early seventeenth century Galileo broke free from the hold of ancient Platonic and Aristotelian philosophy. He drastically changed the framework through which we view the natural world when he asserted that we should base our theory of reality on what we can observe rather than pure thought. In the process, he invented what we would come to call science. This set the stage for all the breakthroughs that followed--from Kepler to Newton to Einstein. But in the early twentieth century when quantum physics, with its deeply complex mathematics, entered into the picture, something began to change. Many physicists began looking to the equations first and physical reality second. As we investigate realms further and further from what we can see and what we can test, we must look to elegant, aesthetically pleasing equations to develop our conception of what reality is. As a result, much of theoretical physics today is something more akin to the philosophy of Plato than the science to which the physicists are heirs. In The Dream Universe, Lindley asks what is science when it becomes completely untethered from measurable phenomena?

Ontology and Metaontology Simon and Schuster

Lee Smolin offers a new theory of the universe that is at once elegant, comprehensive, and radically different from anything proposed before. Smolin posits that a process of self organization like that of biological evolution shapes the universe, as it develops and eventually reproduces through black holes, each of which may result in a new big bang and a new universe. Natural selection may guide the appearance of the laws of physics, favoring those universes which best reproduce. The result would be a cosmology according to which life is a natural consequence of the fundamental principles on which the universe has been built, and a science that would give us a picture of the universe in which, as the author writes, "the occurrence of novelty, indeed the perpetual birth of novelty, can be understood." Smolin is one of the leading cosmologists at work today, and he writes with an expertise and force of argument that will command attention throughout the world of physics. But it is the humanity and sharp clarity of his prose that offers access for the layperson to the mind bending space at the forefront of today's physics.