



# From The Black Hole To The Infinite Universe

**Roger Penrose**



## **From The Black Hole To The Infinite Universe:**

From the Black Hole to the Infinite Universe Donald Goldsmith, Donald Levy, 1974      *The Infinite Universe of Einstein and Newton* Barry Bruce, 2003 After developing his Law of Gravitation Newton came to believe that the Universe was infinite and homogeneous on a large scale Einstein's original intuition was similar to Newton's in that he thought our Universe was static infinite isotropic and homogeneous The field equations of Einstein's general relativity are solved for this universe One of the three solutions found the infinite closed universe traps light within a finite portion of the universe This infinite closed universe model is shown to fit all the data of the Hubble diagram better than the Big Bang and it fits the recent supernova data without having to postulate mysterious dark energy Using general relativity and the physics which evolved from Newton the author finds the force of gravity between two point particles Utilizing this force and the infinite closed universe model the net force of gravity on a point particle in arbitrary motion due to the uniform mass distribution of the universe is calculated by an integration This net force of gravity is found to be equal to the force of inertia These calculations explain Newton's First Law Newton's Second Law and the equivalence of inertial and gravitational mass In addition by the extension of Einstein's general relativity to two body interactions Newton's Third Law is elicited These results show that the cosmological redshift and the physics that we know are likely the result of the uniform mass distribution of our infinite closed universe and gravity alone      **NASA EP.** United States. National Aeronautics and Space Administration, 1968      **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 Truly Infinite Universe** David James Stewart, 2019-06-14 The discoveries of general relativity and quantum mechanics in the 20th century provide the perfect opportunity for Hegel's thought to become more topical than it has ever been By bringing speculative philosophy into conversation with quantum cosmology this book develops Hegel's metaphysics of true infinitude and Hawking's theory on the origins of spacetime in tandem providing a compelling rationale for the idea that the universe is a self generating self organizing self enclosed whole Ever sensitive to the complex relationship of scientific philosophical and theological issues in theoretical cosmology the study brings a fresh perspective to the unique brand of metaphysical theology underlying speculative philosophy and offers a new way of conducting transdisciplinary work involving Hegelian thought This is essential reading for Hegel scholars Hawking scholars those interested in philosophical cosmology the ontology of the quantum void the realism vs idealism debate infinitude imaginary

time and dialectical materialism and those compelled by post classical approaches to theology

**Our Universe-Infinite and Eternal** Barry Bruce,2012-11 The field equations of Einstein s General Relativity are solved for an infinite universe with uniform density One of the three solutions the Infinite Universe of Einstein and Newton fits all the data for the Hubble diagram better than the Big Bang Next using general relativity and the physics that evolved from Newton the force of gravity between two massive point particles is found Utilizing this force and the Infinite Universe of Einstein and Newton model the net force of gravity on a point particle in arbitrary motion due the uniform mass distribution of the universe is calculated by integration This net force of gravity is found to be equal to the Force of Inertia These calculations explain Newton s First Law Newton s Second Law and the equivalence of inertial and gravitational mass The middle of the book deals with the development of quantum mechanics Here it is shown that hidden within the classical mechanics of particles there is the phase of a wave associated with a particle that moves at the speed of a de Broglie wave The form of the phase of the wave is developed Making use of the form of the phase the Hamilton Jacobi equation for a particle is setup to be solved using an integrating factor The resulting equation is manipulated directly into the form of the Schrodinger equation This development requires that the particle Hamilton Jacobi equation has a solution whenever the Schrodinger equation has a solution and vice versa The classical wave function is then shown to have exactly the same mathematical properties as the quantum mechanical wave function including the fact that the absolute value squared of the classical wave function has the mathematical properties of a probability density However the interpretation that this is a probability density for the particle is shown not to hold Lastly the missing matter problem is resolved by showing that the dynamics and the mass of a spiral galaxy are better and more naturally explained by using ordinary physics with ordinary interacting matter than they are by postulating and using exotic weakly interacting dark matter

**The Kaluza Concept (Revision)** Keith Young,2009 *Out of Chaos* Wayne M. Bundy,2007-12 Are we really the pinnacle of 4500 million years of evolution Closely related to the aggressive chimpanzees have we evolved enough to cope The nightly news on television that marvelous technical invention of scientists no turned into a field too barren to be termed a wasteland provides little hope that Homo sapiens is more than another of natu

**String Theory For Dummies** Andrew Zimmerman Jones,2009-11-16 A clear plain English guide to this complex scientific theory String theory is the hottest topic in physics right now with books on the subject pro and con flying out of the stores String Theory For Dummies offers an accessible introduction to this highly mathematical theory of everything which posits ten or more dimensions in an attempt to explain the basic nature of matter and energy Written for both students and people interested in science this guide explains concepts discusses the string theory s hypotheses and predictions and presents the math in an approachable manner It features in depth examples and an easy to understand style so that readers can understand this controversial cutting edge theory

**The Immortal Science** Vijay Singh Rajput,2020-07-29 The Immortal Science is a tale of a Shiva and Adi Sakti who emerged from Singularity as a pre destined

meet to love and to create the universe The book is based on the chronology of the universe according to Vedic Science in which mass energy space and time are the result of Anahad Naada which is called Big Bang by modern science Vedic science narrates the cause of Big Bang and also the stage before the Big Bang i e Anahad Naada phase of inflation in the form of Maha Vishnu and the beginning of time as a Brahma The summon of Rudra and the onset of war between matter and antimatter the grand unification theory Ishaan Shiva and splitting of four fundamental forces in the form of four Rudras are discussed in this book The story starts with the appearance of Pashupat the radiant effulgence in the form of cosmic microwave background CMB

**Infinity: A Very Short Introduction** Ian Stewart, 2017-03-16 Infinity is an intriguing topic with connections to religion philosophy metaphysics logic and physics as well as mathematics Its history goes back to ancient times with especially important contributions from Euclid Aristotle Eudoxus and Archimedes The infinitely large infinite is intimately related to the infinitely small infinitesimal Cosmologists consider sweeping questions about whether space and time are infinite Philosophers and mathematicians ranging from Zeno to Russell have posed numerous paradoxes about infinity and infinitesimals Many vital areas of mathematics rest upon some version of infinity The most obvious and the first context in which major new techniques depended on formulating infinite processes is calculus But there are many others for example Fourier analysis and fractals In this Very Short Introduction Ian Stewart discusses infinity in mathematics while also drawing in the various other aspects of infinity and explaining some of the major problems and insights arising from this concept He argues that working with infinity is not just an abstract intellectual exercise but that it is instead a concept with important practical everyday applications and considers how mathematicians use infinity and infinitesimals to answer questions or supply techniques that do not appear to involve the infinite

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**Eternity Between Space and Time** Ines Testoni, Fabio Scardigli, Andrea Toniolo, Gabriele Gionti S.J., 2024-04-01 Philosophers theologians physicists and psychologists join their efforts to reflect on the crucial issues of limit and infinity time and eternity empty space and material space The volume offers an invaluable contribution to some of the most important issues of our times questions on God and consciousness are discussed in parallel with quantum theory black holes the inflationary universe the Big Bang and string theory from different perspectives and angles ranging from neuroscience to AI

**Applied Process Thought II** Mark Dibben, Rebecca Newton, 2013-05-02 Concentrating mainly on the process philosophy developed by Alfred North Whitehead this series of essays brings together some of the newest developments in the application of process thinking to the physical and social sciences These essays by established scholars in the field demonstrate how a wider and deeper understanding of the world can be obtained using process philosophical concepts how the distortions and blockages inevitably inherent in

substantivist talk can be set aside and how new and fertile lines of research in the sciences can be opened as a result

Stephen Hawking Voice of the Universe Owlture, Despite ALS Hawking transformed cosmology with his work on black holes and time This inspiring story combines scientific genius with resilience and public impact      **Infinity Theories**  
Eleanor Hawking,AI,2025-02-17 Infinity Theories explores the concept of infinity across mathematics physics and cosmology bridging abstract mathematical concepts with their potential physical implications The book investigates whether infinity is merely a mathematical tool or a physical reality One intriguing aspect is the role of infinity in physical theories such as the singularity at the center of black holes and the infinite energy densities predicted by some quantum field theories The book delves into the debate surrounding the possibility of an infinite universe examining its implications for concepts like the multiverse and the arrow of time The book is structured in three main sections mathematical foundations the role of infinity in physical theories like general relativity and quantum mechanics and the possibility of an infinite universe It emphasizes the distinction between mathematical abstraction and physical reality cautioning against the uncritical application of mathematical infinities to physical phenomena It uses data from astronomical surveys cosmological models and theoretical physics research      *Hardway to Heaven* James Roche,2012-11-30 John Malone a corporate attorney and father of two young boys is a man consumed with getting promoted to partner at his law firm He has little time for anything religious especially after the death of his mother Unfortunately for John shortly after being promoted to partner he is diagnosed with a brain tumor and dies shortly thereafter Since John did little to develop his inherent spiritual nature of love and faith he wakes up in the first or lowest of seven levels of heaven the level where those with no faith are sent Fortunately for John a man named Marcus whom John befriended just before his death arrives at the same time Unlike John Marcus seems to have a better understanding of where they are and why they are there It is a story of faith love and friendship It is also a story which illustrates that while there are many differences among the various religions of the world there are many similarities as well and perhaps it is these similarities that are truly divine      *THE THEORY OF SYSTEM RELATIVITY* LIU

TAIXIANG,2014-10-06 The Theory of System Relativity is an important achievement that is the product of in depth and thorough exploration and thinking The author presents detailed in depth and comprehensive studies and investigations of both types of energy quanta The proposed concepts and subsequent studies possess very important significance for guidance and demonstration March of 2013 Yuhua Fu researcher at Sinopec Research and Development Center The Theory of System Relativity is consistent with classical physics including Taichi They all pursue the same thing but they all need to solve certain specific problems The author proposes the following direction of development the electron can be broken down into a photon The philosophy of Mr Liu s thought process is the same as that of classical physics March of 2013 Yinghuan Guo Professor of Institute of High Energy Physics Chinese Academy of Sciences I have conducted a preliminary reading of The Theory of System Relativity and my overall feeling is that Mr Liu Taixiang is a very thoughtful scholar the content of this

book is rich and I suggest that the name of this book should be changed to The System Theory of the Universe May of 2013 Tsao Chang Research Professor of Space Physics University of Alabama USA This work is unprecedented It is not empty praise to call this work a masterpiece I believe that the interpretation of this theory is successful and that the system is rather complete It still requires verification which may yet be a long process June of 2013 Zhanwei Fang Professor at Shantou University

**Fashion, Faith, and Fantasy in the New Physics of the Universe** Roger Penrose, 2024-10-22 Nobel Prize winning physicist Roger Penrose questions some of the most fashionable ideas in physics today including string theory What can fashionable ideas blind faith or pure fantasy possibly have to do with the scientific quest to understand the universe Surely theoretical physicists are immune to mere trends dogmatic beliefs or flights of fancy In fact acclaimed physicist and bestselling author Roger Penrose argues that researchers working at the extreme frontiers of physics are just as susceptible to these forces as anyone else In this provocative book he argues that fashion faith and fantasy while sometimes productive and even essential in physics may be leading today's researchers astray in three of the field's most important areas string theory quantum mechanics and cosmology Arguing that string theory has veered away from physical reality by positing six extra hidden dimensions Penrose cautions that the fashionable nature of a theory can cloud our judgment of its plausibility In the case of quantum mechanics its stunning success in explaining the atomic universe has led to an uncritical faith that it must also apply to reasonably massive objects and Penrose responds by suggesting possible changes in quantum theory Turning to cosmology he argues that most of the current fantastical ideas about the origins of the universe cannot be true but that an even wilder reality may lie behind them Finally Penrose describes how fashion faith and fantasy have ironically also shaped his own work from twistor theory a possible alternative to string theory that is beginning to acquire a fashionable status to conformal cyclic cosmology an idea so fantastic that it could be called conformal crazy cosmology The result is an important critique of some of the most significant developments in physics today from one of its most eminent figures

*Eternity Unveiled* Pasquale De Marco, 2025-03-17 In the vast expanse of human knowledge and imagination there lies a concept that has captivated and perplexed minds for millennia infinity It is a realm beyond our everyday comprehension a boundless frontier that stretches beyond the limits of our perception This book embarks on a profound journey to explore the enigmatic nature of infinity unveiling its mysteries and contemplating its profound implications on our understanding of the universe and our place within it With a keen eye for detail and a passion for unraveling the unknown this book delves into the intricacies of mathematics the boundless depths of the cosmos and the cultural philosophical and spiritual dimensions of infinity From the paradoxes and contradictions that arise when we attempt to grasp the concept of something that is limitless and eternal to the insights offered by art literature and music this book provides a comprehensive exploration of infinity's many facets It examines how different cultures and civilizations throughout history have grappled with this concept and how it intersects with our deepest questions about the meaning of life and the

nature of existence With erudition and eloquence this book weaves together the perspectives of ancient philosophers modern scientists mystics and spiritual seekers offering a rich tapestry of insights into the nature of infinity It is a thought provoking and transformative exploration that challenges our assumptions and expands the boundaries of our understanding This book is not merely an intellectual exercise It is an invitation to embark on a voyage of self discovery a journey that takes us to the heart of infinity and back transforming our perception of reality and our place within the vastness of the universe It is a must read for anyone seeking to deepen their understanding of the world and their own existence If you like this book write a review

**The Efficient Universe** Chen Changcai, 2025-03-20 In the intricate dance of the cosmos from the smallest particles to the vast expanse of galaxies a hidden principle guides the behavior of all things which is efficiency This principle rooted in the laws of physics governs not just the motions of celestial bodies but also the growth patterns of trees the structure of our DNA and the elegance of fractals found throughout nature In *The Efficient Universe: Connecting Physics, Life, and Fractals* we embark on a journey to uncover how the universe utilizes the Principle of Least Action (PLA) to consistently find the most efficient paths whether in the realm of subatomic particles the evolution of life or the mathematical beauty of fractals PLA is a fundamental concept in physics that states that the path taken by a system between two states is the one that minimizes the action which is a specific quantity derived from the system's energy In classical mechanics this principle can explain the motion of particles the behavior of light and the orbits of planets PLA suggests that systems naturally evolve toward configurations that require the least amount of energy making it a unifying principle across various scales and domains

**Self Organization** Self organization is the process by which a system spontaneously forms ordered structures and patterns without external guidance This phenomenon is observed in a wide range of systems from the formation of galaxies to the behavior of social groups and even in the development of consciousness in the human brain Self organization is often driven by the need to minimize energy which can be seen as an extension of PLA For example in a flock of birds each bird adjusts its position based on the movements of its neighbors resulting in an organized formation that requires minimal energy for the group as a whole Similarly in a company departments self organize around a central leadership to minimize inefficiencies and maximize productivity

**Evolution** Evolution particularly in biological systems is the process by which organisms adapt to their environment over time Natural selection favors traits that improve an organism's energy efficiency survival and reproduction This can be viewed as a manifestation of PLA as evolution drives species toward optimizing their biological functions to minimize energy expenditure and maximize survival However evolution is not confined to biology It can also describe the development of technologies ideas and even social systems In every case the principle of minimizing action or effort is a driving force behind the evolution of systems

**Fractals** Fractals are structures that exhibit self similarity across different scales meaning they look similar regardless of the level of magnification Examples include the branching patterns of trees blood vessels and river networks Fractals are often formed through processes that involve repeated

patterns of growth or division which can be explained by PLA For instance the branching of trees minimizes the energy required to transport nutrients from the roots to the leaves The fractal nature of these systems suggests that they are optimized for efficient energy distribution aligning with the concept of minimizing action

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