

# LIGHT Through the PAST



# Past Light

**Atle Ottesen Søvik**



## Past Light:

**A Basic Theory of Everything** Atle Ottesen Søvik, 2022-04-04 What are the basic building blocks of the world This book presents a naturalistic theory saying that the universe and everything in it can be reduced to three fundamental entities a field a set of values that can be actualized at different places in the field and an actualizer of the values The theory is defended by using it to answer the main questions in metaphysics such as What is causality existence laws of nature consciousness thinking free will time mathematical entities ethical values etc The theory is compared with the main alternatives and argued to solve problems better than the existing theories Several new theories are suggested such as how to understand mental causation free will and the truth of ethics and mathematics *Astrophysics* , **A Brief History of the Philosophy of Time** Adrian Bardon, 2024 This thoroughly revised and updated edition of Adrian Bardon's A Brief History of the Philosophy of Time is a short introduction to the history philosophy and science of the study of time from the pre Socratic philosophers through Einstein and beyond Bardon covers subjects such as time and change the experience of time physical and metaphysical approaches to the nature of time the direction of time time travel time and freedom of the will and scientific and philosophical approaches to cosmology and the beginning of time He employs helpful illustrations and keeps technical language to a minimum in bringing the resources of over 2500 years of philosophy and science to bear on some of humanity's most fundamental and enduring questions **Physics and Astrophysics** Subal Kar, 2022-05-05 Physics and Astrophysics Glimpses of the Progress provides a comprehensive account of physics and astrophysics from the time of Aristotle to the modern era of Stephen Hawking and beyond It takes the readers of all ages through a pleasant journey touching on the major discoveries and inventions that have taken place in both the macro world including that in the cosmos and the micro world of atomic and subatomic particles related to physics and astrophysics Use of historical perspective and anecdote makes the storytelling on the progress of physics and astrophysics both interesting and absorbing While peering through different developments in these fields the book never compromises with the sanctity of the scientific content including the depth and beauty of the physical concept of the topics concerned and the philosophical viewpoints they represent Where appropriate the book also delves into value judgments of life that affect our civilization Features The intricate concepts of physics and astrophysics are explained in simple terms and in easy to understand language Physics and astrophysics are discussed in a connected and correlated way in a single volume of comprehensive size but in totality which to date is the unique feature of this book Starting with Aristotle's Physics and going through the work of Newton Einstein Schrödinger Hubble Hewish Hawking and others including the present research on dark energy dark matter and the fifth force of nature the reader will be kept absorbed and spellbound In addition to the fundamental principles of Newtonian mechanics Einstein's relativity quantum mechanics string theory loop quantum gravity and so on the cutting edge technologies of recent times such as the Large Hadron Collider Laser Interferometer Gravitational wave Observatory and

Event Horizon Telescope are also explored The book is aimed primarily at undergraduate and graduate students researchers and professionals studying physics and astrophysics General readers will also find the book useful to quench their thirst for knowledge about the developments in physics and astrophysics *Einstein's Field Equations and Their Physical Implications* Bernd G. Schmidt,2008-01-11 This book serves two purposes The authors present important aspects of modern research on the mathematical structure of Einstein's field equations and they show how to extract their physical content from them by mathematically exact methods The essays are devoted to exact solutions and to the Cauchy problem of the field equations as well as to post Newtonian approximations that have direct physical implications Further topics concern quantum gravity and optics in gravitational fields The book addresses researchers in relativity and differential geometry but can also be used as additional reading material for graduate students

**Time Travel** Nikk Effingham,2020 Time travel is metaphysically possible Nikk Effingham contends that arguments for the impossibility of time travel are not sound Focusing mainly on the Grandfather Paradox Effingham explores the ramifications of taking this view discusses issues in probability and decision theory and considers the potential dangers of travelling in time Quantum Worlds Olimpia Lombardi,Sebastian Fortin,Cristian López,Federico Holik,2019-04-11 Offers a comprehensive and up to date volume on the conceptual and philosophical problems related to the interpretation of quantum mechanics

**Galaxy Formation** Malcolm S. Longair,2023-04-10 Delineating the huge strides taken in cosmology in the past ten years this much anticipated second edition of Malcolm Longair's highly appreciated textbook has been extensively and thoroughly updated It tells the story of modern astrophysical cosmology from the perspective of one of its most important and fundamental problems how did the galaxies come about Longair uses this approach to introduce the whole of what may be called classical cosmology What's more he describes how the study of the origin of galaxies and larger scale structures in the Universe has provided us with direct information about the physics of the very early Universe A Modern Introduction to Classical Electrodynamics Michele Maggiore,2023 Beginning with Maxwell's equations in the vacuum the text emphasises the central role of gauge invariance and of Special Relativity and is suitable for undergraduate students with some background knowledge of the subject and for graduate students

*From Illusions to Reality* Vesselin Petkov,2013-09-08 The greatest mystery in the world is its very existence In our intellectual development we all reach a turning point when we start asking the perennial existential questions What is the world What am I What is the meaning of the existence of the world and myself As the German philosopher Schopenhauer put it The lower a man stands in intellectual respects the less of a riddle does existence seem to him but the clearer his consciousness becomes the more the problem grasps him in its greatness This book explores what fundamental physics tells us about the physical world and how the scientific picture of what exists often differs disturbingly from the common sense view based on the way our senses reflect the world Centuries old illusions are identified by showing that they contradict experimentally confirmed results of modern physics which clears the way toward deeper

understanding of reality The greatest illusion that the world exists only at the present moment of time has been realized by many great thinkers but so far the human race has been unable to free itself from it prompting Einstein to write this the distinction between past present and future is only a stubbornly persistent illusion Getting rid of such stubbornly persistent illusions by open mindedly examining the implications of modern physics for the physical world can help us rise above the fog of everyday life and see Nature the way she herself is      Secrets of Black Holes Rajeev Raghuram,2022-08-30 Though discovered by scientists only a few decades ago black holes have become a major object of public fascination and speculation But how do black holes actually work And how do they drive the processes we observe in the universe Black Holes the second book in an ongoing astronomy series by Rajeev Raghuram gives an informed overview of black hole physics spacetime and the impact of this phenomenon on our universe Written for a young adult audience this book synthesizes the latest scientific discoveries and the equations that describe them presenting this complex fascinating information in highly accessible terms Key topics include how black holes form how they interact with one another the methods that scientists use to study them and the physics of spacetime that explain the structure of black holes and point to the possibility of wormholes even other universes Equations fundamental to understanding black holes are explained in detail and numerous diagrams illustrate what happens inside them and how they relate to time and other universes      *The Early Universe* Gerhard Börner,2004-06-11 This fourth edition of Börner's *The Early Universe* is practically a new book not just updated version In particular it is now organized so as to make it more useful as a textbook And problem sections are also added In the centre are the connections between particle physics and cosmology The standard model some basic implications of quantum field theory and the questions of structure formation Special emphasis is given to the observed anisotropies of the cosmic microwave background and the consequences drawn for cosmology and for the structure formation models Nuclear and particle physicists and astrophysicists researchers and teachers as well as graduate students will welcome this new edition of a classic text and reference      *Theory of gontierism Vol 1* Darrell Gontier,2012-07-08 Darrell's Theory of numbers and numerology completely different      **Differential Geometry and Relativity Theory** Richard L. Faber,2017-10-19 Differential Geometry and Relativity Theory An Introduction approaches relativity as a geometric theory of space and time in which gravity is a manifestation of space time curvature rather than a force Uniting differential geometry and both special and general relativity in a single source this easy to understand text opens the general theory of relativity to mathematics majors having a background only in multivariable calculus and linear algebra The book offers a broad overview of the physical foundations and mathematical details of relativity and presents concrete physical interpretations of numerous abstract concepts in Riemannian geometry The work is profusely illustrated with diagrams aiding in the understanding of proofs and explanations Appendices feature important material on vector analysis and hyperbolic functions Differential Geometry and Relativity Theory An Introduction serves as the ideal text for high level undergraduate courses in mathematics and physics and includes a

solutions manual augmenting classroom study It is an invaluable reference for mathematicians interested in differential and Riemannian geometry or the special and general theories of relativity

### **An Introduction to the Science of Cosmology**

Derek Raine, E.G. Thomas, 2018-10-03 A thorough introduction to modern ideas on cosmology and on the physical basis of the general theory of relativity An Introduction to the Science of Cosmology explores various theories and ideas in big bang cosmology providing insight into current problems Assuming no previous knowledge of astronomy or cosmology this book takes you beyond introductory texts to the point where you are able to read and appreciate the scientific literature which is broadly referenced in the book The authors present the standard big bang theory of the universe and provide an introduction to current inflationary cosmology emphasizing the underlying physics without excessive technical detail The book treats cosmological models without reliance on prior knowledge of general relativity the necessary physics being introduced in the text as required It also covers recent observational evidence pointing to an accelerating expansion of the universe The first several chapters provide an introduction to the topics discussed later in the book The next few chapters introduce relativistic cosmology and the classic observational tests One chapter gives the main results of the hot big bang theory Next the book presents the inflationary model and discusses the problem of the origin of structure and the correspondingly more detailed tests of relativistic models Finally the book considers some general issues raised by expansion and isotropy A reference section completes the work by listing essential formulae symbols and physical constants Beyond the level of many elementary books on cosmology An Introduction to the Science of Cosmology encompasses numerous recent developments and ideas in the area It provides more detailed coverage than many other titles available and the inclusion of problems at the end of each chapter aids in self study and makes the book suitable for taught courses

### **The New Time Travelers: A Journey to the Frontiers of Physics**

David Toomey, 2011-02-14 The story of physicists quest to answer a mind boggling question How can we travel through time Since H G Wells 1895 classic The Time Machine readers of science fiction have puzzled over the paradoxes of time travel What would happen if a time traveler tried to change history Would some force or law of nature prevent him Or would his action produce a new history branching away from the original In the last decade of the twentieth century a group of theoretical physicists at the California Institute of Technology undertook a serious investigation of the possibility of pastward time travel inspiring a serious and sustained study that engaged more than thirty physicists working at universities and institutes around the world Many of the figures involved are familiar Einstein Stephen Hawking and Kip Thorne others are names known mostly to physicists These are the new time travelers and this is the story of their work a profoundly human endeavor marked by advances retreats and no small share of surprises It is a fantastic journey to the frontiers of physics Some images in the ebook are not displayed owing to permissions issues

### **Theoretical Concepts in Physics**

Malcolm S. Longair, 2020-04-16 An innovative integrated approach to classical physics and the beginnings of

quantum physics through a sequence of historical case studies

### On the Origin of Time

Thomas Hertog, 2023-04-11 NEW

YORK TIMES BESTSELLER Stephen Hawking's closest collaborator offers the intellectual superstar's final thoughts on the cosmos a dramatic revision of the theory he put forward in *A Brief History of Time* This superbly written book offers insight into an extraordinary individual the creative process and the scope and limits of our current understanding of the cosmos Lord Martin Rees Perhaps the biggest question Stephen Hawking tried to answer in his extraordinary life was how the universe could have created conditions so perfectly hospitable to life In order to solve this mystery Hawking studied the big bang origin of the universe but his early work ran into a crisis when the math predicted many big bangs producing a multiverse countless different universes most of which would be far too bizarre to harbor life Holed up in the theoretical physics department at Cambridge Stephen Hawking and his friend and collaborator Thomas Hertog worked on this problem for twenty years developing a new theory of the cosmos that could account for the emergence of life Peering into the extreme quantum physics of cosmic holograms and venturing far back in time to our deepest roots they were startled to find a deeper level of evolution in which the physical laws themselves transform and simplify until particles forces and even time itself fades away This discovery led them to a revolutionary idea The laws of physics are not set in stone but are born and co evolve as the universe they govern takes shape As Hawking's final days drew near the two collaborators published their theory which proposed a radical new Darwinian perspective on the origins of our universe On the Origin of Time offers a striking new vision of the universe's birth that will profoundly transform the way we think about our place in the order of the cosmos and may ultimately prove to be Hawking's greatest legacy

**Geometric Multivector Analysis** Andreas Rosén, 2019-11-09 This book presents a step by step guide to the basic theory of multivectors and spinors with a focus on conveying to the reader the geometric understanding of these abstract objects Following in the footsteps of M Riesz and L Ahlfors the book also explains how Clifford algebra offers the ideal tool for studying spacetime isometries and Möbius maps in arbitrary dimensions The book carefully develops the basic calculus of multivector fields and differential forms and highlights novelties in the treatment of e.g. pullbacks and Stokes's theorem as compared to standard literature It touches on recent research areas in analysis and explains how the function spaces of multivector fields are split into complementary subspaces by the natural first order differential operators e.g. Hodge splittings and Hardy splittings Much of the analysis is done on bounded domains in Euclidean space with a focus on analysis at the boundary The book also includes a derivation of new Dirac integral equations for solving Maxwell scattering problems which hold promise for future numerical applications The last section presents down to earth proofs of index theorems for Dirac operators on compact manifolds one of the most celebrated achievements of 20th century mathematics The book is primarily intended for graduate and PhD students of mathematics It is also recommended for more advanced undergraduate students as well as researchers in mathematics interested in an introduction to geometric analysis

Understanding Relativity Leo Sartori, 1996-05-30 An extraordinarily well written well researched and carefully thought out piece of work The discussions of the paradoxes of relativity and of cosmology are the

best discussions of these topics at an elementary level that I have ever seen Roger A Freedman University of California Santa Barbara



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