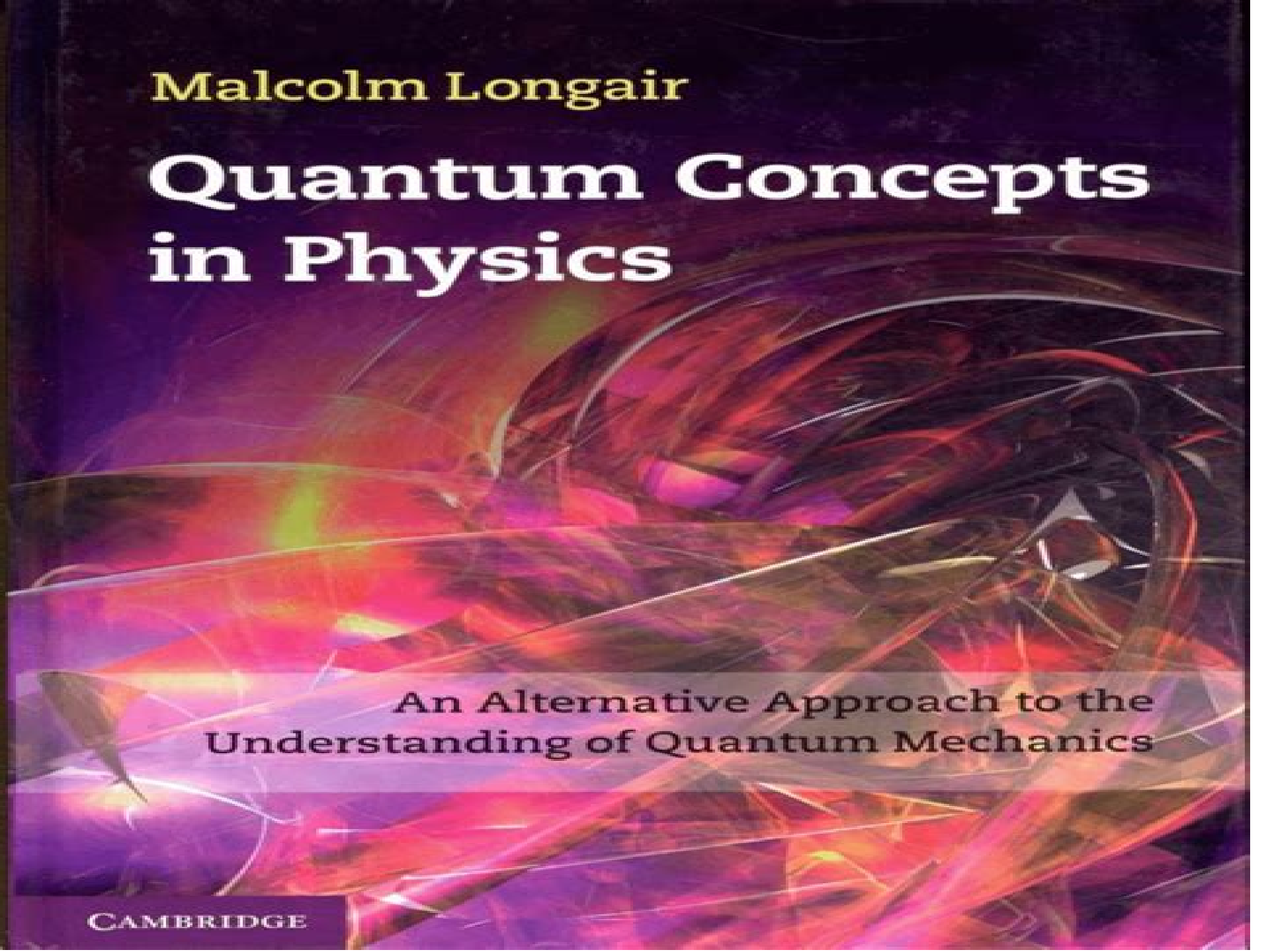




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Quantum Concepts in Physics

An Alternative Approach to the
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Theoretical Concepts in Physics Malcolm S. Longair, 2020-04-16 In this original and integrated approach to theoretical reasoning in physics Malcolm Longair illuminates the subject from the perspective of real physics as practised by research scientists Concentrating on the basic insights attitudes and techniques that are the tools of the modern physicist this approach conveys the intellectual excitement and beauty of the subject Through a series of seven case studies an undergraduate course in classical physics and the discovery of quanta are reviewed from the point of view of how the great discoveries and changes of perspective came about This approach illuminates the intellectual struggles needed to attain understanding of some of the most difficult concepts in physics Longair's highly acclaimed text has been fully revised and includes new studies on the physics of fluids Maxwell's great paper on equations for the electromagnetic field and problems of contemporary cosmology and the very early universe *Quantum Concepts in Physics* Malcolm S. Longair, 2013 Innovative account of the origins of quantum mechanics told from a historical perspective for advanced undergraduates graduate students and researchers The Oxford Handbook of the History of Modern Cosmology Helge Kragh, Malcolm Longair, 2019-03-06 Scientific and popular literature on modern cosmology is very extensive however scholarly works on the historical development of cosmology are few and scattered The Oxford Handbook of the History of Modern Cosmology offers a comprehensive and authoritative account of the history of cosmology from the late nineteenth century to the early twenty first century It provides historical background to what we know about the universe today including not only the successes but also the many false starts Big Bang theory features prominently but so does the defunct steady state theory The book starts with a chapter on the pre Einstein period 1860 1910 and ends with chapters on modern developments such as inflation dark energy and multiverse hypotheses The chapters are organized chronologically with some focusing on theory and others more on observations and technological advances A few of the chapters discuss more general ideas relating to larger contexts such as politics economy philosophy and world views **Quantum Puzzle, The: Critique Of Quantum Theory And**

Electrodynamics Barry R Clarke,2017-04-27 In 1861 James Clerk Maxwell published Part II of his four part series On physical lines of force In it he attempted to construct a vortex model of the magnetic field but after much effort neither he nor other late nineteenth century physicists who followed him managed to produce a workable theory What survived from these attempts were Maxwell s four equations of electrodynamics together with the Lorentz force law formulae that made no attempt to describe an underlying reality but stood only as a mathematical description of the observed phenomena When the quantum of action was introduced by Planck in 1900 the difficulties that had faced Maxwell s generation were still unresolved Since then theories of increasing mathematical complexity have been constructed to attempt to bring the totality of phenomena into order with little success This work examines the problems that had been abandoned long before quantum mechanics was formulated in 1925 and argues that these issues need to be revisited before real progress in the quantum theory of the electromagnetic field can be made Einstein's Destruction of Physics Peter Ńujak,2018-02-09 This book is intended for anyone who is interested in a real physical image and order of the physical world surrounding us In this book Einstein s destruction of physics is documented The physical reality of gravity inertial forces mass time double slit experiment is debunked It shows that Quarks and Higgs bosons do not exist and that all elementary particles all rigid matter and all force fields in the Universe are created from compression of ether It shows that Einstein after 1916 became a more enthusiastic advocate of the proven existence of the ether than supporters of the ether before 1905 The aim of this book is to return physics from its way of metaphysics in the 20th century on the way of the physical reality in the 21st century This second edition of this book was augmented by twenty pages compared to its first edition After this augmentation it appears that the argumentation about the unacceptability of the ill founded physical theories of the 20th century represents a compact corpus **Numerical Methods in Physics with Python** Alex Gezerlis,2023-07-20 A standalone text on computational physics combining idiomatic Python foundational numerical methods and physics applications *Maxwell's Enduring Legacy* Malcolm Longair,2016-07-07 An authoritative scientific history of a world leading physics laboratory from its origins in the late nineteenth century to the present day *Gravity and the Quantum* Jasjeet Singh Bagla,Sunil Engineer,2017-02-23 This book provides a compilation of in depth articles and reviews on key topics within gravitation cosmology and related issues It is a celebratory volume dedicated to Prof Thanu Padmanabhan Paddy the renowned relativist and cosmologist from IUCAA India on the occasion of his 60th birthday The authors many of them leaders of their fields are all colleagues collaborators and former students of Paddy who have worked with him over a research career spanning more than four decades Paddy is a scientist of diverse interests who attaches great importance to teaching With this in mind the aim of this compilation is to provide an accessible pedagogic introduction to and overview of various important topics in cosmology gravitation and astrophysics As such it will be an invaluable resource for scientists graduate students and also advanced undergraduates seeking to broaden their horizons The Secret of The Alchemist Colm Holland,2020-07-31 This

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