

# QED

AND THE MEN WHO MADE IT:  
DYSON, FEYNMAN,  
SCHWINGER,  
AND TOMONAGA



SILVAN S. SCHWEBER

# Qed And The Men Who Made It

**S. S. Schweber**



## **QED And The Men Who Made It:**

*QED and the Men who Made it* Silvan S. Schweber, 1994-04-24 In the 1930s physics was in a crisis There appeared to be no way to reconcile the new theory of quantum mechanics with Einstein's theory of relativity In the post World War II period four eminent physicists rose to the challenge and developed a calculable version of quantum electrodynamics QED This formulation of QED was pioneered by Freeman Dyson Richard Feynman Julian Schwinger and Sin Itiro Tomonaga three of whom won the Nobel Prize for their work Schweber begins with an account of the early work done by physicists such as Dirac and Jordan and describes the gathering of eminent theorists at Shelter Island in 1947 The rest of his narrative comprises individual biographies of the four physicists discussions of their major contributions and the story of the scientific community in which they worked Publisher's description

*QED and the Men Who Made It* S. S. Schweber, 2020-05-05 In the 1930s physics was in a crisis There appeared to be no way to reconcile the new theory of quantum mechanics with Einstein's theory of relativity Several approaches had been tried and had failed In the post World War II period four eminent physicists rose to the challenge and developed a calculable version of quantum electrodynamics QED probably the most successful theory in physics This formulation of QED was pioneered by Freeman Dyson Richard Feynman Julian Schwinger and Sin Itiro Tomonaga three of whom won the Nobel Prize for their work In this book physicist and historian Silvan Schweber tells the story of these four physicists blending discussions of their scientific work with fascinating biographical sketches Setting the achievements of these four men in context Schweber begins with an account of the early work done by physicists such as Dirac and Jordan and describes the gathering of eminent theorists at Shelter Island in 1947 the meeting that heralded the new era of QED The rest of his narrative comprises individual biographies of the four physicists discussions of their major contributions and the story of the scientific community in which they worked Throughout Schweber draws on his technical expertise to offer a lively and lucid explanation of how this theory was finally established as the appropriate way to describe the atomic and subatomic realms

[Theory of the Muon Anomalous Magnetic Moment](#) Kirill Melnikov, Arkady Vainshtein, 2006-05-22 The theory of the muon anomalous magnetic moment is particle physics in a nutshell It is an interesting exciting and difficult subject and this book provides a comprehensive review of it The theory of the muon anomalous magnetic moment is at the cutting edge of current research in particle physics and any deviation between the theoretical prediction and the experimental value might be interpreted as a signal of an as yet unknown new physics

**The Who's Who of Nobel Prize Winners, 1901-2000** Louise S. Sherby, 2001-12-30 The Who's Who of Nobel Prize Winners is a one stop source of detailed information on the men and women who earned the Nobel Prize during the 20th century Organized chronologically by prize each extensive article contains in depth information on the laureate's life and career as well as a selected list of his or her publications and biographical resources on the individual A concise commentary explains why the laureate received the award and summarizes the individual's other important achievements This completely updated

edition also contains a history of the prize Four indexes distinguish this title from similar biographical references and enable researchers to search by name education nationality or citizenship and religion *Higgs Force* Nicholas Mee,2012 Higgs Force tells the dramatic story of how physicists produced their modern understanding of the Cosmos by unlocking the secrets of matter Physicists believe that the universe began in a state of perfect symmetry As the universe expanded and the temperature fell much of this symmetry was lost in an all encompassing transformation We see the results all around us the evolution of a complex and dynamic universe supporting the existence of sentient life Deep beneath the Franco Swiss border CERN with the mighty Large Hadron Collider is seeking the ultimate confirmation of these ideas the elusive Higgs particle known to some as the God Particle **Eureka** Chad Orzel,2014-12-09 When it comes to science too often people say I just don't have the brains for it and leave it at that Why is science so intimidating and why do people let themselves feel this way What makes one person a scientist and another disinclined even to learn how to read graphs The idea that scientists are people who wear lab coats and are somehow smarter than the rest of us is a common yet dangerous misconception that puts science on an intimidating pedestal How did science become so divorced from everyday experience In *Eureka* science popularizer Chad Orzel argues that even the people who are most forthright about hating science are doing science often without even knowing it Orzel shows that science is central to the human experience every human can think like a scientist and regularly does so in the course of everyday activities The common misconception is that science is a body of boring abstract often mathematical facts In truth science is a process Looking at the world Thinking about what makes it work Testing your mental model by comparing it to reality and Telling others about your results all things that people do daily By revealing the connection between the everyday activities that people do solving crossword puzzles playing sports or even watching mystery shows on television and the processes used to make great scientific discoveries *Eureka* shows that this process is one everybody uses regularly and something that anyone can do **Advanced Quantum Mechanics** Freeman J. Dyson,2011 This edition has been printed on the 60th anniversary of the Cornell lectures and includes a foreword by science historian David Kaiser as well as notes from Dyson's lectures at the Les Houches Summer School of Theoretical Physics in 1954 The Les Houches lectures described as a supplement to the original Cornell notes provide a more detailed look at field theory a careful and rigorous derivation of Fermi's Golden Rule and a masterful treatment of renormalization and Ward's Identity Pub desc The Oxford Companion to the History of Modern Science John L. Heilbron,2003-02-14 Containing 609 encyclopedic articles written by more than 200 prominent scholars The Oxford Companion to the History of Modern Science presents an unparalleled history of the field invaluable to anyone with an interest in the technology ideas discoveries and learned institutions that have shaped our world over the past five centuries Focusing on the period from the Renaissance to the early twenty first century the articles cover all disciplines Biology Alchemy Behaviorism historical periods the Scientific Revolution World War II the Cold War concepts Hypothesis Space and Time Ether and methodologies and philosophies

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**From Strange Simplicity to Complex Familiarity** Manfred Eigen, 2013 This book presents a vivid argument for the almost lost idea of a unity of all natural sciences It starts with the strange physics of matter including particle physics atomic physics and quantum mechanics cosmology relativity and their consequences Chapter I and it continues by describing the properties of material systems that are best understood by statistical and phase space concepts Chapter II These lead to entropy and to the classical picture of quantitative information initially devoid of value and meaning Chapter III Finally information space and dynamics within it are introduced as a basis for semantics Chapter IV leading to an exploration of life and thought as new problems in physics Chapter V Dynamic equations again of a strange but very general nature bring about the complex familiarity of the world we live in Surprising new results in the life sciences open our eyes to the richness of physical thought and they show us what can and what cannot be explained by a Darwinian approach The abstract physical approach is applicable to the origins of life of meaningful information and even of our universe

**Quantum Field Theory II: Quantum Electrodynamics** Eberhard Zeidler, 2008-09-03 And God said Let there be light and there was light Genesis 1:3 Light is not only the basis of our biological existence but also an essential source of our knowledge about the physical laws of nature ranging from the seventeenth century geometrical optics up to the twentieth century theory of general relativity and quantum electrodynamics Folklore Don t give us numbers give us insight A contemporary natural scientist to a mathematician The present book is the second volume of a comprehensive introduction to the mathematical and physical aspects of modern quantum field theory which comprehends the following six volumes Volume I Basics in Mathematics and Physics Volume II Quantum Electrodynamics Volume III Gauge Theory Volume IV Quantum Mathematics Volume V The Physics of the Standard Model Volume VI Quantum Gravitation and String Theory It is our goal to build a bridge between mathematicians and physicists based on the

challenging question about the fundamental forces in macrocosmos the universe and microcosmos the world of elementary particles The six volumes address a broad audience of readers including both und graduate and graduate students as well as experienced scientists who want to become familiar with quantum eld theory which is a fascinating topic in modern mathematics and physics

*Spooky Action at a Distance* George Musser,2015-11-03 Long listed for the 2016 PEN E O Wilson Literary Science Writing Award Delightfully readable *Spooky Action at a Distance* is a mind bending voyage to the frontiers of modern physics that will change the way we think about reality What is space It isn t a question that most of us normally ask Space is the venue of physics it s where things exist where they move and take shape Yet over the past few decades physicists have discovered a phenomenon that operates outside the confines of space and time nonlocality the ability of two particles to act in harmony no matter how far apart they may be It appears to be almost magical Einstein grappled with this oddity and couldn t come to terms with it describing it as spooky action at a distance More recently the mystery has deepened as other forms of nonlocality have been uncovered This strange occurrence which has direct connections to black holes particle collisions and even the workings of gravity holds the potential to undermine our most basic understandings of physical reality If space isn t what we thought it was then what is it In *Spooky Action at a Distance* George Musser sets out to answer that question offering a provocative exploration of nonlocality and a celebration of the scientists who are trying to explain it Musser guides us on an epic journey into the lives of experimental physicists observing particles acting in tandem astronomers finding galaxies that look statistically identical and cosmologists hoping to unravel the paradoxes surrounding the big bang He traces the often contentious debates over nonlocality through major discoveries and disruptions of the twentieth century and shows how scientists faced with the same undisputed experimental evidence develop wildly different explanations for that evidence Their conclusions challenge our understanding of not only space and time but also the origins of the universe and they suggest a new grand unified theory of physics An important book that provides insight into key new developments in our understanding of the nature of space time and the universe It will repay careful study John Gribbin *The Wall Street Journal* An endlessly surprising foray into the current mother of physics many knotty mysteries the solving of which may unveil the weirdness of quantum particles black holes and the essential unity of nature Kirkus Reviews starred review

**Reading Bohr: Physics and Philosophy** Arkady Plotnitsky,2006-11-15 Reading Bohr *Physics and Philosophy* offers a new perspective on Niels Bohr s interpretation of quantum mechanics as complementarity and on the relationships between physics and philosophy in Bohr s work which has had momentous significance for our understanding of quantum theory and of the nature of knowledge in general Philosophically the book reassesses Bohr s place in the Western philosophical tradition from Kant and Hegel on Physically it reconsiders the main issues at stake in the Bohr Einstein confrontation and in the ongoing debates concerning quantum physics It also devotes greater attention than in most commentaries on Bohr to the key developments and transformations of his thinking concerning complementarity Most

significant among them were those that occurred first under the impact of Bohr's exchanges with Einstein and second under the impact of developments in quantum theory itself both quantum mechanics and quantum field theory. The importance of quantum field theory for Bohr's thinking has not been adequately addressed in the literature on Bohr to the considerable detriment to our understanding of the history of quantum physics. Filling this lacuna is one of the main contributions of the book which also enables us to show why quantum field theory compels us to move beyond Bohr without however simply leaving him behind.

**The Oxford Guide to the History of Physics and Astronomy** J. L. Heilbron, 2005-06-03 The entries follow an elaborate organizational plan which amounts to a new classification of knowledge its institutional settings and its applications. This plan is reprinted in the opening pages of the Guide. Thoroughly cross referenced and accented with attractive black and white artwork no other source is as systematic and authoritative or as informative and inviting in its coverage of physics astronomy and planetary science. **BOOK JACKET**

*Concepts In Particle Physics: A Concise Introduction To The Standard Model* V Parameswaran Nair, 2017-11-03 The 2013 discovery of the Higgs boson posed a challenge to both physics undergraduates and their instructors. Since particle physics is seldom taught at the undergraduate level the question what is the Higgs and why does its discovery matter is a common question among undergraduates. Equally answering this question is a problem for physics instructors. This book is an attempt to put the key concepts of particle physics together in an appealing way and yet give enough extra tidbits for students seriously considering graduate studies in particle physics. It starts with some recapitulation of relativity and quantum mechanics and then builds on it to give both conceptual ideas regarding the Standard Model of particle physics as well as technical details. It is presented in an informal lecture style and includes remarks sections where extra material history or technical details are presented for the interested student. The last lecture presents an assessment of the open questions and where the future might take us.

Disciplinarity at the Fin de Siècle Amanda Anderson, Joseph Valente, 2021-03-09 Contemporary celebrations of interdisciplinary scholarship in the humanities and social sciences often harbor a distrust of traditional disciplines which are seen as at best narrow and unimaginative and at worst complicit in larger forms of power and policing. *Disciplinarity at the Fin de Siècle* questions these assumptions by examining for the first time in so sustained a manner the rise of a select number of academic disciplines in a historical perspective. This collection of twelve essays focuses on the late Victorian era in Great Britain but also on Germany France and America in the same formative period. The contributors James Buzard Lauren M E Goodlad Liah Greenfield John Guillory Simon Joyce Henrika Kuklick Christopher Lane Jeff Nunokawa Arkady Plotnitsky Ivan Strenski Athena Vrettos and Gauri Viswanathan examine the genealogy of various fields including English sociology economics psychology and quantum physics. Together with the editors' cogent introduction they challenge the story of disciplinary formation as solely one of consolidation constraint and ideological justification. Addressing a broad range of issues disciplinary formations disciplinarity and professionalism disciplines of the self discipline and the state and current disciplinary debates the book aims to dislodge

what the editors call the comfortable pessimism that too readily assimilates disciplines to techniques of management or control. It advances considerably the effort to more fully comprehend the complex legacy of the human sciences. *Quantum Field Theory for the Gifted Amateur* Tom Lancaster, Stephen J. Blundell, 2014-04-17 Quantum field theory is arguably the most far reaching and beautiful physical theory ever constructed with aspects more stringently tested and verified to greater precision than any other theory in physics. Unfortunately the subject has gained a notorious reputation for difficulty with forbidding looking mathematics and a peculiar diagrammatic language described in an array of unforgiving weighty textbooks aimed firmly at aspiring professionals. However quantum field theory is too important too beautiful and too engaging to be restricted to the professionals. This book on quantum field theory is designed to be different. It is written by experimental physicists and aims to provide the interested amateur with a bridge from undergraduate physics to quantum field theory. The imagined reader is a gifted amateur possessing a curious and adaptable mind looking to be told an entertaining and intellectually stimulating story but who will not feel patronised if a few mathematical niceties are spelled out in detail. Using numerous worked examples diagrams and careful physically motivated explanations this book will smooth the path towards understanding the radically different and revolutionary view of the physical world that quantum field theory provides and which all physicists should have the opportunity to experience. *Selected Papers of Freeman Dyson with Commentary* Freeman J. Dyson, 1996 This book offers a unique compilation of papers in mathematics and physics from Freeman Dyson's 50 years of activity and research. These are the papers that Dyson considers most worthy of preserving and many of them are classics. The papers are accompanied by commentary explaining the context from which they originated and the subsequent history of the problems that either were solved or left unsolved. This collection offers a connected narrative of the developments in mathematics and physics in which the author was involved beginning with his professional life as a student of G. H. Hardy. *The Heroic Age* Robert D. Purrington, 2018 Presents a detailed look at the period between 1925 and leading up to WWII in which quantum theory was created and then quickly applied to nuclear atomic molecular and solid state physics. The book includes a heavy emphasis on the scientific literature rather than a breezy overview of this period focusing on personalities or personal stories of the scientists involved. **Journal of Scientific & Industrial Research**, 1997 *Lectures Of Sidney Coleman On Quantum Field Theory: Foreword By David Kaiser* Bryan Gin-gu Chen, David Derbes, David Griffiths, Brian Hill, Richard Sohn, Yuan-sen Ting, 2018-11-08 Sidney Coleman was the master teacher of quantum field theory. All of us who knew him became his students and disciples. Sidney's legendary course remains fresh and bracing because he chose his topics with a sure feel for the essential and treated them with elegant economy. Frank Wilczek Nobel Laureate in Physics 2004. Sidney Coleman was a physicist's physicist. He is largely unknown outside of the theoretical physics community and known only by reputation to the younger generation. He was an unusually effective teacher famed for his wit his insight and his encyclopedic knowledge of the field to which he made many important



contributions There are many first rate quantum field theory books the venerable Bjorken and Drell the more modern Itzykson and Zuber the now standard Peskin and Schroeder and the recent Zee but the immediacy of Prof Coleman's approach and his ability to present an argument simply without sacrificing rigor makes his book easy to read and ideal for the student Part of the motivation in producing this book is to pass on the work of this outstanding physicist to later generations a record of his teaching that he was too busy to leave himself

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