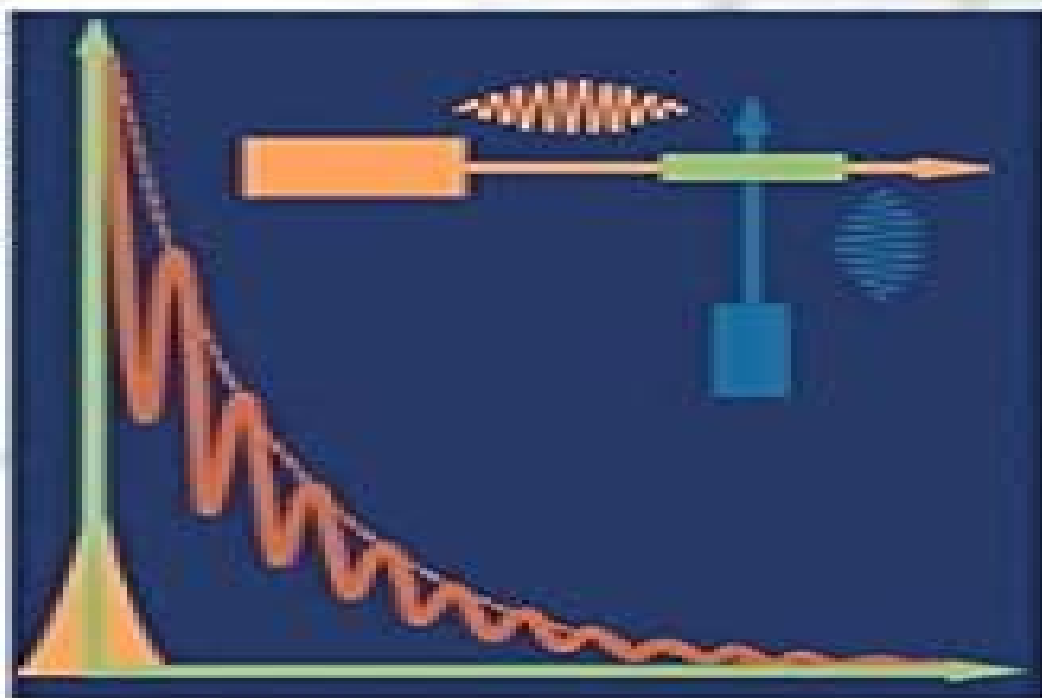


More Than One Mystery

Explorations
in
Quantum
Interference



MARK P. SILVERMAN

Springer-Verlag

More Than One Mystery Explorations In Quantum Interference

Mark P. Silverman



More Than One Mystery Explorations In Quantum Interference:

More than one mystery Mark P. Silverman, 1995 Because atomic behavior is so unlike ordinary experience wrote Richard Feynman it is very difficult to get used to and it appears strange and mysterious to everyone both to the novice and to the experienced physicist At the core of the strange behavior lies quantum interference In reality Feynman wrote it contains the only mystery To author Mark Silverman however the puzzling nature of quantum behavior is multifaceted **More Than One Mystery** Mark P. Silverman, 1995 **More Than One Mystery** Mark P. Silverman, 2012-12-06 I think I can safely say that nobody understands quantum mechanics Richard Feynman Basing his discussion on a small number of conceptually simple models the two level atom the two slit interferometer the author addresses a number of conceptually interesting questions concerning the puzzles of quantum mechanics Though the phenomena arising from quantum interference are central he maintains that they are not the only mystery in quantum mechanics the deep connection between spin and the statistics of identical particles the ghostly long range effects that correlated particles exert on each other and the perplexing role of topology in the interactions of charged particles and electromagnetic fields are all conundrums yet to be understood

Quantum Superposition Mark P. Silverman, 2008-01-08 Coherence entanglement and interference arise from quantum superposition the most distinctive and puzzling feature of quantum physics Silverman whose extensive experimental and theoretical work has helped elucidate these processes presents a clear and engaging discussion of the role of quantum superposition in diverse quantum phenomena such as the wavelike nature of particle propagation indistinguishability of identical particles nonlocal interactions of correlated particles topological effects of magnetic fields and chiral asymmetry in nature He also examines how macroscopic quantum coherence may be able to extricate physics from its most challenging quandary the collapse of a massive degenerate star to a singularity in space in which the laws of physics break down Explained by a physicist with a concern for clarity and experimental achievability the extraordinary nature of quantum superposition will fascinate the reader not only for its apparent strangeness but also for its comprehensibility **A Universe of Atoms, An Atom in the Universe** Mark P. Silverman, 2008-04-08 Approximately 10 years have passed since the publication of *And Yet It Moves* Strange Systems and Subtle Questions in Physics During this time the book has done very well being received favorably by both readers and reviewers The exhaustion of the last printing has given me the opportunity to make revisions The present volume updated and expanded by three new chapters containing a total of 17 additional essays on a wide range of questions that I have explored in quantum mechanics nuclear physics thermodynamics general relativity and astrophysics has been given a new title to reflect the broad thematic coverage and a new publisher Springer Verlag The Introduction *The Fire Within* that follows based on the preface to the original edition explains fully the purpose and content of this book I wish to note briefly here however that time and the advance of physics have not dulled the scientific relevance of any of the essays This book like its predecessor is not intended to be a popularization a textbook or a monograph of any field of

physics Rather it is a personal account of the scientific underpinnings motivations lessons and ramifications of some of the many fundamental physical problems that have engaged me throughout my career to the present These are essays that anyone with an interest in contemporary physics can read although it is certainly the case that the more serious the interest the more meaningful will be the essays

Waves and Grains Mark P. Silverman, 2018-06-05 Mark Silverman has seen light perform many wonders From the marvel of seeing inside cloudy liquids as a result of his own cutting edge research to reproducing and examining an unusual diffraction pattern first witnessed by Isaac Newton 300 years ago he has studied aspects of light that have inspired and puzzled humans for hundreds of years In this book he draws on his many experiences as an optical and atomic physicist and on his consummate skills as a teacher and writer about the mysteries of physics to present a remarkable tour of the world of light He explores theoretical experimental and historical themes showing a keen eye for curious and neglected corners of the study of light and a fascination with the human side of scientific discovery In the course of the book he covers such questions as how it is possible to achieve magnifications of a millionfold without a single lens or mirror He asks what all living things have in common that might one day allow the development of a life form scanner like the one in Star Trek He considers whether more light can reflect from a surface than strikes it and explores the origin of the strange hyperpolc diffraction pattern Newton originally produced with sunlight and knives Silverman also discusses his new and ground breaking experiments to see into murky substances such as fog or blood a finding with potential applications as diverse as noninvasive medical testing and remote sensing of the environment His wide ranging reflections cover virtually all elements of physical optics including propagation reflection refraction diffraction interference polarization and scattering Throughout Silverman makes extensive reference to both modern research and the original works of giants such as Newton Fresnel and Maxwell In a more personal section about physics and learning Silverman argues for self directed learning and discusses the central importance of stimulating scientific curiosity in students Waves and Grains will encourage a spirit of wonder and inquiry in anyone with scientific interests

Potentiality, Entanglement and Passion-at-a-Distance Robert S. Cohen, M. Horne, J.J. Stachel, 1997-06-30 Potentiality Entanglement and Passion at a Distance is a book for theoretical physicists and philosophers of modern physics It treats a puzzling and provocative aspect of recent quantum physics the apparent interaction of certain physical events that cannot share any causal connection These are said to be entangled in some way but an explanation remains elusive Abner Shimony to whom the book is dedicated and others suggest the need to revive the category of what may be seen as a metaphysical potentiality Abner has described these events without actions to link them as passion at a distance not active but passive The discussions gathered here are written by a truly remarkable cast of scientists and philosophers and shed new light on the most profound puzzles of our times

More Things in Heaven and Earth Benjamin Bederson, 2012-12-06 The 20th century has been the century of physics a period of unparalleled scientific advances fueled primarily by discoveries by physicists The 20th century also represents the life span of the American

Physical Society not coincidentally and to celebrate both its own centennial and this remarkable century the APS has prepared a book highlighting the seminal discoveries of the 20th century with invited articles by the world's most eminent living physicists including 12 physics Nobel Prize winners Included will be chapters by R Richardson on superfluidity J Lebowitz on statistical mechanics P deGennes on granular material J Hopfield on neural networks C Wieman on matter waves A Pais on high energy physics in the early 20th century The book will contain about 40 chapters on a broad range of topics in physics written in an engaging and personal style While the technical level is high these are not review articles but rather perspectives on discoveries written by those scientists most closely associated with the original work as well future directions of research The book will be promoted to the meeting attendees in advance of the March meeting and should be of interest to the broad scientific community Ben Bederson professor of physics at NYU was editor in chief of the APS journals from 1986 1997 He is also editor of the Advances in Atomic Physics Series Academic Press **And Yet It Moves** Mark P.

Silverman,1993-06-17 Originally published in 1993 this book of essays is a largely nonmathematical account of some of the strange behaviour both classical and quantum exhibited by moving particles fluids and waves Drawn from the author's researches in quantum mechanics atomic and nuclear physics electromagnetism and optics gravity thermodynamics and the physics of fluids the essays describe different physical systems whose behaviour provokes surprise and challenges the imagination There are strange processes for which no visualisable mechanism can be given processes that seem to violate fundamental physical laws but which in reality do not processes that are superficially well understood yet turn out to be subtly devious The essays address questions or controversies from whose resolution emerge lessons of general significance regarding the mystery and fascination of motion Anyone with a basic physics background or with an interest in the fundamental questions of physics will find this book of use **A Certain Uncertainty** Mark P. Silverman,2014-07-10

Based around a series of real life scenarios this engaging introduction to statistical reasoning will teach you how to apply powerful statistical qualitative and probabilistic tools in a technical context From analysis of electricity bills baseball statistics and stock market fluctuations through to profound questions about physics of fermions and bosons decaying nuclei and climate change each chapter introduces relevant physical statistical and mathematical principles step by step in an engaging narrative style helping to develop practical proficiency in the use of probability and statistical reasoning With numerous illustrations making it easy to focus on the most important information this insightful book is perfect for students and researchers of any discipline interested in the interwoven tapestry of probability statistics and physics Special Relativity and Motions Faster than Light Moses Fayngold,2008-09-08 While the theory of special relativity is often associated with the idea of traveling faster than light this book shows that in all these cases subtle forces of nature conspire to prevent these motions being harnessed to send signals faster than the speed of light The author tackles these topics both conceptually with minimal or no mathematics and quantitatively making use of numerous illustrations to clarify the discussion The result is a

joy to read for both scientists familiar with the subject and laypeople wishing to understand something of special relativity

Quantum Mechanics: Fundamentals Kurt Gottfried, Tung-Mow Yan, 2013-12-01 Quantum mechanics was already an old and solidly established subject when the first edition of this book appeared in 1966 The context in which a graduate text on quantum mechanics is studied today has changed a good deal however In 1966 most entering physics graduate students had a quite limited exposure to quantum mechanics in the form of wave mechanics Today the standard undergraduate curriculum contains a large dose of elementary quantum mechanics and often introduces the abstract formalism due to Dirac Back then the study of the foundations by theorists and experimenters was close to dormant and very few courses spent any time whatever on this topic At that very time however John Bell's famous theorem broke the ice and there has been a great flowering ever since especially in the laboratory thanks to the development of quantum optics and more recently because of the interest in quantum computing And back then the Feynman path integral was seen by most as a very imaginative but rather useless formulation of quantum mechanics whereas it now plays a large role in statistical physics and quantum field theory especially in computational work For these and other reasons this book is not just a revision of the 1966 edition It has been rewritten throughout is differently organized and goes into greater depth on many topics that were in the old edition

Biological and Quantum Computing for Human Vision: Holonomic Models and Applications Peruš, Mitja, Loo, Chu Kiong, 2010-11-30 Many body interactions have been successfully described through models based on classical or quantum physics More recently some of the models have been related to cognitive science by researchers who are interested in describing brain activity through the use of artificial neural networks ANNs Biological and Quantum Computing for Human Vision Holonomic Models and Applications presents an integrated model of human image processing up to conscious visual experience based mainly on the Holonomic Brain Theory by Karl Pribram This work researches possibilities for complementing neural models of early vision with the new preliminary quantum models of consciousness in order to construct a model of human image processing

Lectures on Quantum Field Theory and Functional Integration Zbigniew Haba, 2023-05-29 This book offers a concise introduction to quantum field theory and functional integration for students of physics and mathematics Its aim is to explain mathematical methods developed in the 1970s and 1980s and apply these methods to standard models of quantum field theory In contrast to other textbooks on quantum field theory this book treats functional integration as a rigorous mathematical tool More emphasis is placed on the mathematical framework as opposed to applications to particle physics It is stressed that the functional integral approach unlike the operator framework is suitable for numerical simulations The book arose from the author's teaching in Wrocław and preserves the form of his lectures So some topics are treated as an introduction to the problem rather than a complete solution with all details Some of the mathematical methods described in the book resulted from the author's own research

Modern Challenges in Quantum Optics Miguel Orszag, Juan C. Retamal, 2008-01-11 Quantum Optics is a rapidly progressing field well suited to

probe the many fundamental issues raised by the subtleties of quantum physics This book consists of a collection of reviews and papers that highlight the most important challenges faced in this area of research including topics such as cavity QED quantum entanglement decoherence matter waves and nonlinear optics It will be a source of reference for all those who wish to familiarize themselves with the latest developments in the field

Quantum Computation and Quantum Information Theory Chiara Macchiavello,G. M. Palma,Anton Zeilinger,2000 Quantum Entanglement Manipulation Quantum Algorithms Quantum Complexity Quantum Error Correction Quantum Channels Entanglement Purification and Long Distance Quantum Communication Quantum Key Distribution Cavity Quantum Electrodynamics Quantum Computation with Ion Traps Josephson Junctions and Quantum Computation Quantum Computing in Optical Lattices Quantum Computation and Quantum Communication with Electrons NMR Quantum Computing

Quantum Mechanics II S. Rajasekar,R. Velusamy,2022-11-24 Quantum Mechanics II Advanced Topics offers a comprehensive exploration of the state of the art in various advanced topics of current research interest A follow up to the authors introductory book Quantum Mechanics I The Fundamentals this book expounds basic principles theoretical treatment case studies worked out examples and applications of advanced topics including quantum technologies A thoroughly revised and updated this unique volume presents an in depth and up to date progress on the growing topics including latest achievements on quantum technology In the second edition six new chapters are included and the other ten chapters are extensively revised Features Covers classical and quantum field theories path integral formalism and supersymmetric quantum mechanics Highlights coherent and squeezed states Berry s phase Aharonov Bohm effect and Wigner function Explores salient features of quantum entanglement and quantum cryptography Presents basic concepts of quantum computers and the features of no cloning theorem and quantum cloning machines Describes the theory and techniques of quantum tomography quantum simulation and quantum error correction Introduces other novel topics including quantum versions of theory of gravity cosmology Zeno effect teleportation games chaos and steering Outlines the quantum technologies of ghost imaging detection of weak amplitudes and displacements lithography metrology teleportation of optical images sensors batteries and internet Contains several worked out problems and exercises in each chapter Quantum Mechanics II Advanced Topics addresses various currently emerging exciting topics of quantum mechanics It emphasizes the fundamentals behind the latest cutting edge developments to help explain the motivation for deeper exploration The book is a valuable resource for graduate students in physics and engineering wishing to pursue research in quantum mechanics

Classical Mechanics and Quantum Mechanics: An Historic-Axiomatic Approach Peter Enders,2019-09-05 This unique textbook presents a novel axiomatic pedagogical path from classical to quantum physics Readers are introduced to the description of classical mechanics which rests on Euler s and Helmholtz s rather than Newton s or Hamilton s representations Special attention is given to the common attributes rather than to the differences between classical and quantum mechanics Readers will also learn about Schr dinger s forgotten demands on quantization his

equation Einstein's idea of quantization as selection problem The Schrödinger equation is derived without any assumptions about the nature of quantum systems such as interference and superposition or the existence of a quantum of action h The use of the classical expressions for the potential and kinetic energies within quantum physics is justified Key features Presents extensive reference to original texts Includes many details that do not enter contemporary representations of classical mechanics although these details are essential for understanding quantum physics Contains a simple level of mathematics which is seldom higher than that of the common Riemannian integral Brings information about important scientists Carefully introduces basic equations notations and quantities in simple steps This book addresses the needs of physics students teachers and historians with its simple easy to understand presentation and comprehensive approach to both classical and quantum mechanics

Narrative Structure and Narrative Knowing in Medicine and Science

Martina King, Tom Kindt, 2023-11-20 It has become a truism that we all think in the narrative mode both in everyday life and in science But what does this mean precisely Scholars tend to use the term narrative in a broad sense implying not only event sequencing but also the representation of emotions basic perceptual processes or complex analyses of data sets The volume addresses this blind spot by using clear selection criteria only non-fictional texts by experts are analysed through the lens of both classical and postclassical narratology from Aristotle to quantum physics and from nineteenth century psychiatry to early childhood psychology they fall under various genres such as philosophical treatises case histories textbooks medical reports video clips and public lectures The articles of this volume examine the central but continuously shifting role that event sequencing plays within scholarly and scientific communication at various points in history and the diverse functions it serves such as eye witnessing making an argument inferencing or reasoning Thus they provide a new methodological framework for both literary scholars and historians of science and medicine

Symmetry in Optics and Vision Studies

Marlos A.G. Viana, Vasudevan Lakshminarayanan, 2019-11-27 This book presents an introduction to the foundations interpretations and data analytic applications of symmetry studies with an emphasis on applications in optical sciences Symmetry studies connect group theoretic and statistical methods for data summary and inference Readers should have an understanding of calculus and linear algebra as well as introductory statistics The book reviews finite group theory in the introductory chapters Computational tools used in the text are available for download in the form of Mathematica notebooks or R scripts This book Demonstrates the usefulness of a unified view of algebra and symmetry studies to address data analytic questions in optics and vision science Offers a brief review of finite group theory and elements of multivariate analysis Includes various examples from diverse areas of optical science

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