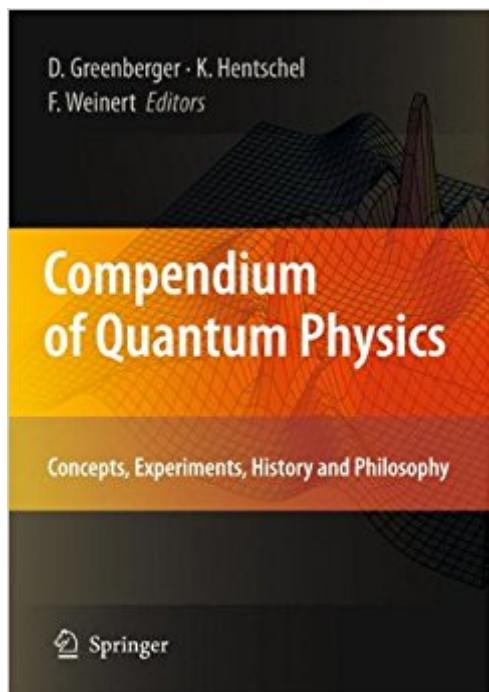


The book was found

Compendium Of Quantum Physics: Concepts, Experiments, History And Philosophy



Synopsis

With contributions by leading quantum physicists, philosophers and historians, this comprehensive A-to-Z of quantum physics provides a lucid understanding of key concepts of quantum theory and experiment. It covers technical and interpretational aspects alike, and includes both traditional and new concepts, making it an indispensable resource for concise, up-to-date information about the many facets of quantum physics.

Book Information

Hardcover: 901 pages

Publisher: Springer; 2009 edition (September 9, 2009)

Language: English

ISBN-10: 3540706224

ISBN-13: 978-3540706229

Product Dimensions: 6.4 x 1.6 x 9.5 inches

Shipping Weight: 3.2 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #1,163,493 in Books (See Top 100 in Books) #58 in Books > Science & Math > Chemistry > Physical & Theoretical > Quantum Chemistry #1022 in Books > Science & Math > Physics > Quantum Theory #1175 in Books > Medical Books > Medicine > Internal Medicine > Pathology > Clinical Chemistry

Customer Reviews

âœFrom the Aharonov-Bohm effect through to zero point energy, this is a useful compendium of about 250 concepts, experimental facts, theoretical proposals, history, interpretations and philosophy. It covers a big field and can be well recommended.â• (K.-E. Hellwig, zbMATH 1318.81001, 2015)âœThis is a wonderful book to dip into. It begins with the Aharonov-Bohm effect, runs through the Born Rule and the Copenhagen Interpretation before ending with Zero-point Energy. Kaiser on Feynman Diagrams nicely brings all those elements together, as does Lyre on Gauge Symmetry. A book everyone interested in the history and philosophy of quantum physics should have on their desk or even at their bedside. It should be on hand electronically via your library's online access.â• (Steven French, Metascience, June, 2011)âœThis work is a collection of 185 articles written by 90 researchers in physics, philosophy, and history. Each article aims to include a clear definition of the term, a history of the terminology, and a small list of references. This is a useful compendium for persons involved in

interdisciplinary work. \rightarrow Summing Up: Recommended. Upper-division undergraduate through professional collections. \rightarrow (E. Kincanon, Choice, Vol. 47 (6), February, 2010) In diesem voluminösen Band behandeln Experten der experimentellen, theoretischen und mathematischen Physik ... Die einzelnen Artikel sind im Allgemeinen sehr instruktiv geschrieben ... Besonders die Autoren aus der Physik haben sich großes Mitleid gegeben, ihre Themen zugleich präzise und verständlich zusammenzufassen. ... Ein sehr schöner ausführlicher Artikel aus erster Hand widmet sich dem inzwischen fast dreijährigen Quanten-Hall-Effekt. ... Insgesamt darf man freilich das vorliegende Kompendium der Quantenphysik, gerade wegen seiner interdisziplinären Zusammensetzung, als eine sehr nützliche Bereicherung der quantentheoretischen Literatur empfehlen. \rightarrow (Helmut Rechenberg, in: Physik Journal, April/2010, Vol. 9, Issue 4, S. 56 f.)

With contributions by many of today's leading quantum physicists, philosophers and historians, including three Nobel laureates, this comprehensive A to Z of quantum physics provides a lucid understanding of the key concepts of quantum theory and experiment. It covers technical and interpretational aspects alike, and includes both traditional topics and newer areas such as quantum information and its relatives. The central concepts that have shaped contemporary understanding of the quantum world are clearly defined, with illustrations where helpful, and discussed at a level suitable for undergraduate and graduate students of physics, history of science, and philosophy of physics. All articles share three main aims: (1) to provide a clear definition and understanding of the term concerned; (2) where possible, to trace the historical origins of the concept; and (3) to provide a small but optimal selection of references to the most relevant literature, including pertinent historical studies. Also discussed are the often contentious philosophical implications derived from quantum theory and its associated experimental findings. This compendium will be an indispensable resource for all those seeking concise up-to-date information about the many facets of quantum physics.

This Springer book is exactly what it says it is a compilation of 185 articles of the quantum mechanical world. A few articles can be understood by the laymen but most are directed at the physics community. Summaries of the researcher contributors are given in the back of the book along with their head shots. A great book to have for your quantum library.

[Download to continue reading...](#)

Compendium of Quantum Physics: Concepts, Experiments, History and Philosophy Advanced Molecular Quantum Mechanics: An Introduction to Relativistic Quantum Mechanics and the

Quantum Theory of Radiation (Studies in Chemical Physics) The Physics and Philosophy of the Bible: How Relativity, Quantum Physics, Plato, and History Meld with Biblical Theology to Show That God Exists and That ... Live Forever (The Inevitable Truth Book 1) Manifesto for Philosophy: Followed by Two Essays: "the (Re)Turn of Philosophy Itself" and "Definition of Philosophy" (Sunny Series, Intersections, Philosophy and Critical Theory) Quantum Electrodynamics: Gribov Lectures on Theoretical Physics (Cambridge Monographs on Particle Physics, Nuclear Physics and Cosmology) Quantum Runes: How to Create Your Perfect Reality Using Quantum Physics and Teutonic Rune Magic (Creating Magick with The Universal Laws of Attraction Book 1) Covariant Loop Quantum Gravity: An Elementary Introduction to Quantum Gravity and Spinfoam Theory (Cambridge Monographs on Mathematical Physics) Quantum Thermodynamics: Emergence of Thermodynamic Behavior Within Composite Quantum Systems (Lecture Notes in Physics) The Quantum Mechanics Solver: How to Apply Quantum Theory to Modern Physics The Zuni Cafe Cookbook: A Compendium of Recipes and Cooking Lessons from San Francisco's Beloved Restaurant: A Compendium of Recipes and Cooking Lessons from San Francisco's Beloved Restaurant Rules Compendium: An Essential Dungeons & Dragons Compendium Recent Advances in the Theory of Chemical and Physical Systems: Proceedings of the 9th European Workshop on Quantum Systems in Chemistry and Physics ... in Theoretical Chemistry and Physics) Mathematics of Classical and Quantum Physics (Dover Books on Physics) Quantum Physics: Beginner's Guide to the Most Amazing Physics Theories The Feynman Lectures on Physics, Vol. III: The New Millennium Edition: Quantum Mechanics: Volume 3 (Feynman Lectures on Physics (Paperback)) Methods of Quantum Field Theory in Statistical Physics (Dover Books on Physics) World History, Ancient History, Asian History, United States History, European History, Russian History, Indian History, African History. (world history) Garbage and Recycling: Environmental Facts and Experiments (Young Discoverers: Environmental Facts and Experiments) Chirelstein's Federal Income Taxation: A Law Student's Guide to the Leading Cases and Concepts (Concepts and Insights) (Concepts and Insights Series) Dad's Book of Awesome Science Experiments: From Boiling Ice and Exploding Soap to Erupting Volcanoes and Launching Rockets, 30 Inventive Experiments to Excite the Whole Family! (Dads Book of Awesome)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

FAQ & Help