


Quantum Mechanics

By Gennaro Auletta, Mauro Fortunato, Giorgio Parisi

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The important changes quantum mechanics has undergone in recent years are reflected in this new approach for students. A strong narrative, and over 300 worked problems lead the student from experiment, through general principles of the theory, to modern applications. Stepping through results allows students to gain a thorough understanding. Starting with basic quantum mechanics, the book moves on to more advanced theory, followed by applications, perturbation methods and special fields, and ending with new developments in the field. Historical, mathematical, and philosophical boxes guide the student through the theory. Unique to this textbook are chapters on measurement and quantum optics, both at the forefront of current research. Advanced undergraduate and graduate students will benefit from this new perspective on the fundamental physical paradigm and its applications. Online resources including solutions to selected problems, and 200 figures, with color versions of some figures, are available online.

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Editorial Review

Review

"... A truly original treatment that towers over most of its competitors and makes many of them look pedestrian. Auletta, Fortunato and Parisi's handsomely produced book will benefit thousands of students and has the potential to rekindle the passion of many teachers who have taught quantum mechanics for so long that they yawn even at the thought of teaching it again. This is the freshest new treatment of a well-established branch of physics I have read for more than a decade, as far away as I can imagine from being 'yet another book on quantum mechanics'."

Times Higher Education Supplement

About the Author

Gennaro Auletta is Scientific Director of Science and Philosophy at the Pontifical Gregorian University, Rome. His main areas of research are quantum mechanics, logic, cognitive sciences, information theory and applications to biological systems.

Mauro Fortunato is a Structurer at Cassa depositi e prestiti S.p.A., Rome. He is involved in financial engineering, applying mathematical methods of quantum physics to the pricing of complex financial derivatives and the construction of structured products.

Giorgio Parisi is Professor of Quantum Theories at the University of Rome 'La Sapienza'. He has won several prizes, notably the Boltzmann Medal, the Dirac Medal and Prize, and the Daniel Heineman prize. His main research activity deals with elementary particles, theory of phase transitions and statistical mechanics, disordered systems, computers and very large scale simulations, non-equilibrium statistical physics, optimization and animal behaviour.

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