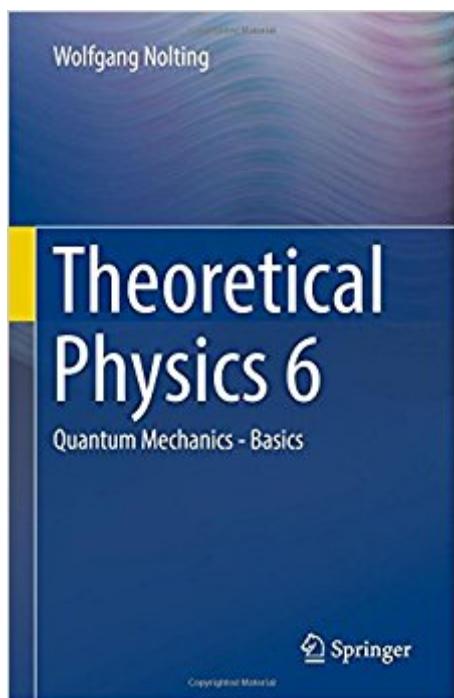


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Theoretical Physics 6: Quantum Mechanics - Basics



Synopsis

Der Grundkurs Theoretische Physik deckt in 7 Ä BÄfÄnden die im Diplom- und Bachelor/Master-Studium maÃfÄgeblichen Gebiete ab und vermittelt das im jeweiligen Semester benÃfÄtigte theoretisch-physikalische RÄfÄ stzeug. Der erste Teil von Band 5 beginnt mit einer BegrÃfÄndung der Quantenmechanik und der Zusammenstellung ihrer formalen Grundlagen, um dann Konzepte und Begriffsbildungen an Modellsystemen zu illustrieren. Der Band enthÃfÄlt ÄfÄbungsaufgaben und Kontrollfragen zur Vertiefung des Stoffs. Die ÄfÄ berarbeitete und ergÃfÄnzte Neuauflage ist zweifarbig gestaltet.

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This textbook offers a clear and comprehensive introduction to the basics of quantum mechanics, one of the core components of undergraduate physics courses. It follows on naturally from the previous volumes in this series, thus developing the physical understanding further on to quantized states. The first part of the book introduces wave equations while exploring the Schrödinger equation and the hydrogen atom. More complex themes are covered in the second part of the book, which describes the Dirac formulation of quantum mechanics. Ideally suited to undergraduate students with some grounding in classical mechanics and electrodynamics, the book is enhanced throughout with learning features such as boxed inserts and chapter summaries, with key mathematical derivations highlighted to aid understanding. The text is supported by numerous worked examples and end of chapter problem sets. About the Theoretical Physics series Translated from the renowned and highly successful German editions, the eight volumes of this series cover

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Prof. Dr Wolfgang Nolting is an emeritus professor of physics of the German Humboldt University in Berlin, whose research interests span solid state physics and magnetism. He has over 40 years of teaching experience at various institutions including the University of Münster, ETH Zürich, the University of Würzburg and the Universidad de Valladolid in Spain. His acclaimed German textbook series on Theoretical Physics has now attained the rank of a standard work in physics education.

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