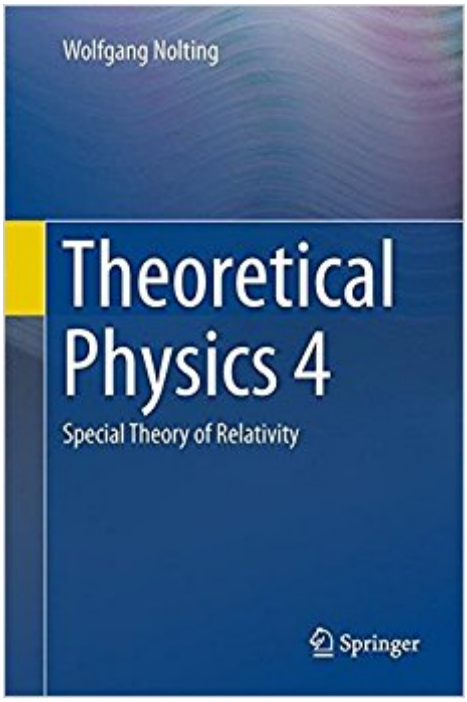
Theoretical Physics 4: Special Theory Of Relativity



Synopsis

Der Grundkurs Theoretische Physik deckt in 7Ã Â BÃƒÂ¤nden alle fÃƒÂ r das Diplom und fÃƒÂ r Bachelor/Master-StudiengÃƒÂ¤nge maÃƒÅ¸geblichen Gebiete ab. Jeder Band vermittelt das im jeweiligen Semester notwendige theoretisch-physikalische RÃƒÂ stzeug. ÃƒÅ“bungsaufgaben mit ausfÃƒÂ hrlichen LÃƒÂ¶sungen dienen der Vertiefung des Stoffs. Der 4.Ã Â Band behandelt die Gebiete Thermodynamik und RelativitÃƒÂ¤tstheorie. FÃƒÂ r die Neuauflage wurde er grundlegend ÃƒÂ berarbeitet und um 24 Aufgaben ergÃƒÂ¤nzt. Durch die zweifarbige Gestaltung ist der Stoff jetzt noch ÃƒÂ bersichtlicher gegliedert.

Book Information

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Customer Reviews

This concise textbook offers a clear and comprehensive introduction to special relativity, one of the core components of undergraduate physics courses.Ã Â It follows on naturally from the previous volumes in this series, thus developing the relativistic expansion of classical mechanics and electrodynamics. The first part of the book introduces Lorentz transformations, time dilation, length contraction and Minkowski diagrams. More complex themes are covered in the second part of the book, which describes the four-dimensional covariant formulation for classical mechanics and electrodynamics, including discussion of MaxwellÃ¢â ¬â„¢s equations, the Lorentz force and the covariant Lagrangian formulation.Ã Â 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.Ã Â The text is supported by numerous worked examples and end of chapter

problem sets. Ã Â About the Theoretical Physics seriesTranslated from the renowned and highly successful German editions, the eight volumes of this series cover the complete core curriculum of theoretical physics at undergraduate level. Each volume is self-contained and provides all the material necessary for the individual course topic. Numerous problems with detailed solutions support a deeper understanding.Ã Â Ã Â Nolting is famous for his refined didactical style and has been referred to as the "German Feynman" in reviews.

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. Ã Â He has over 40 years of teaching experience at various institutions including theÃ Â University of MÃƒÂ nster, ETH ZÃƒÂ rich, the University of WÃƒÂ rzburg and the Universidad de Valladolid in Spain.Ã Â His acclaimed German textbook series on Theoretical Physics has now attained the rank of a standard work in physics education. Ã Â

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