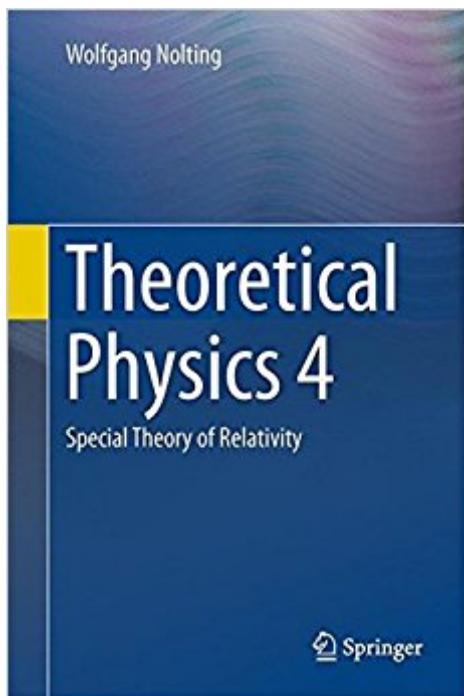


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Theoretical Physics 4: Special Theory Of Relativity



Synopsis

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This concise textbook offers a clear and comprehensive introduction to special relativity, one of the core components of undergraduate physics courses. Ä 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 MaxwellÄcâs equations, the Lorentz force and the covariant Lagrangian formulation. Ä 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. Ä The text is supported by numerous worked examples and end of chapter

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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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