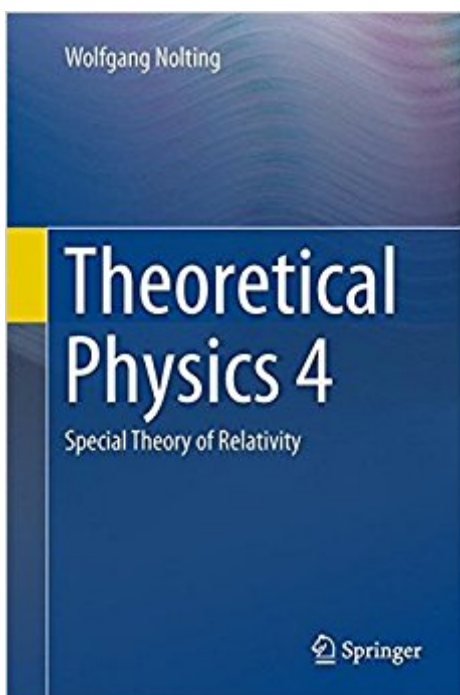


The book was found

# Theoretical Physics 4: Special Theory Of Relativity



## Synopsis

Der Grundkurs Theoretische Physik deckt in 7 Bänden alle für das Diplom und für Bachelor/Master-Studiengänge maßgeblichen Gebiete ab. Jeder Band vermittelt das im jeweiligen Semester notwendige theoretisch-physikalische Rüstzeug. Übungsaufgaben mit ausführlichen Lösungen dienen der Vertiefung des Stoffs. Der 4. Band behandelt die Gebiete Thermodynamik und Relativitätstheorie. Für die Neuauflage wurde er grundlegend überarbeitet und um 24 Aufgaben ergänzt. Durch die zweifarbige Gestaltung ist der Stoff jetzt noch übersichtlicher gegliedert.

## Book Information

Hardcover: 143 pages

Publisher: Springer; 1st ed. 2017 edition (September 29, 2016)

Language: English

ISBN-10: 3319443704

ISBN-13: 978-3319443706

Product Dimensions: 6.1 x 0.4 x 9.2 inches

Shipping Weight: 14.9 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #895,328 in Books (See Top 100 in Books) #126 in Books > Science & Math > Physics > Gravity #614 in Books > Science & Math > Physics > Mathematical Physics #2649 in Books > Textbooks > Science & Mathematics > Physics

## Customer Reviews

This concise textbook offers a clear and comprehensive introduction to special relativity, one of the core components of undergraduate physics courses. 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 Maxwell's equations, the Lorentz force and the covariant Lagrangian formulation. 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 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. 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. 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.

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

From Special Relativity to Feynman Diagrams: A Course in Theoretical Particle Physics for Beginners (UNITEXT for Physics) Theoretical Physics 4: Special Theory of Relativity Theory of Relativity for the Rest of Us but not for Dummies: Theory of Relativity Simplified Quantum Electrodynamics: Gribov Lectures on Theoretical Physics (Cambridge Monographs on Particle Physics, Nuclear Physics and Cosmology) Statistical Physics: Theory of the Condensed State (Course of Theoretical Physics Vol. 9) 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) The Road to Relativity: The History and Meaning of Einstein's "The Foundation of General Relativity", Featuring the Original Manuscript of Einstein's Masterpiece Philosophical And Theoretical Perspectives For Advanced Nursing Practice (Cody, Philosophical and Theoretical Perspectives for Advances Nursing Practice) Special Relativity (M.I.T. Introductory Physics) Modern Classical Physics: Optics, Fluids, Plasmas, Elasticity, Relativity, and Statistical 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) Relativity: The Special and the General Theory Relativity; the Special and General Theory Transformations Of Coordinates, Vectors, Matrices And Tensors Part I: LAGRANGE'S EQUATIONS, HAMILTON'S EQUATIONS, SPECIAL THEORY OF RELATIVITY AND CALCULUS ... Mathematics From 0 And 1 Book 16) Relativity: The Special and General Theory [New Edition with Readable Equations] Relativity: The Special and the General

Theory, 100th Anniversary Edition Newton to Einstein: The Trail of Light: An Excursion to the Wave-Particle Duality and the Special Theory of Relativity Relativity: The Special and General Theory [Illustrated] The Classical Theory of Fields, Fourth Edition: Volume 2 (Course of Theoretical Physics Series) Quantum Field Theory in Strongly Correlated Electronic Systems (Theoretical and Mathematical Physics)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)