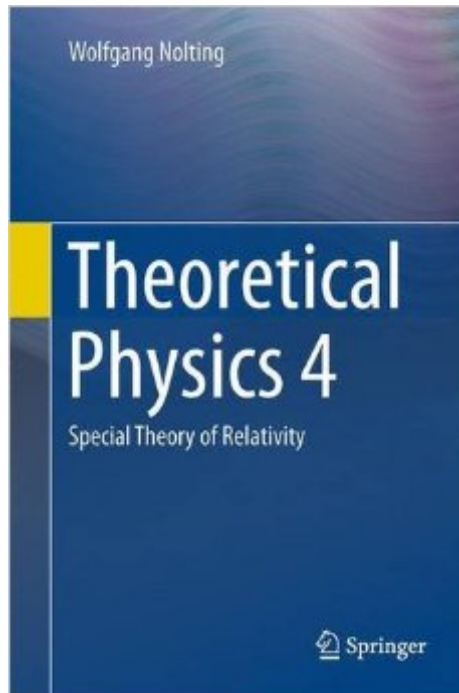


The book was found

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: 142 pages

Publisher: Springer; 1st ed. 2017 edition (November 7, 2016)

Language: English

ISBN-10: 3319443704

ISBN-13: 978-3319443706

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Best Sellers Rank: #1,694,359 in Books (See Top 100 in Books) #226 in Books > Science & Math > Physics > Gravity #1219 in Books > Science & Math > Physics > Mathematical Physics #4471 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. Wolfgang 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...](#)

Theoretical Physics 4: Special Theory of Relativity Einstein in Matrix Form: Exact Derivation of the Theory of Special and General Relativity without Tensors (Graduate Texts in 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) 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 the General Theory Electrodynamics: The Field-Free Approach: Electrostatics, Magnetism, Induction, Relativity and Field Theory (Undergraduate Lecture Notes in Physics) Statistical Physics, Third Edition, Part 1: Volume 5 (Course of Theoretical Physics, Volume 5) Philosophical And Theoretical Perspectives For Advanced Nursing Practice (Cody, Philosophical and Theoretical Perspectives for Advances Nursing Practice) The Nature of Theoretical Thinking in Nursing: Third Edition (Kim, The Nature of Theoretical Thinking in Nursing) Quantum Mechanics: The Theoretical Minimum (Theoretical Minimum, The) The Classical Theory of Fields, Fourth Edition: Volume 2 (Course of Theoretical Physics Series) Theory of Elasticity, Third Edition: Volume 7 (Course of Theoretical Physics) Integral Theory in Action: Applied, Theoretical, and Constructive Perspectives on the AQAL Model (SUNY series in Integral Theory) Special Relativity: An Introduction with 200 Problems and Solutions Relativity: Special, General, and Cosmological How Consciousness Became the Universe:: Quantum Physics, Cosmology, Relativity, Evolution, Neuroscience, Parallel Universes Fundamentals of Physics: Mechanics, Relativity, and Thermodynamics (The Open Yale Courses Series) General Relativity (Graduate Texts in Physics) Theory of Relativity: and Other Essays The

Perfect Theory: A Century of Geniuses and the Battle over General Relativity

[Dmca](#)