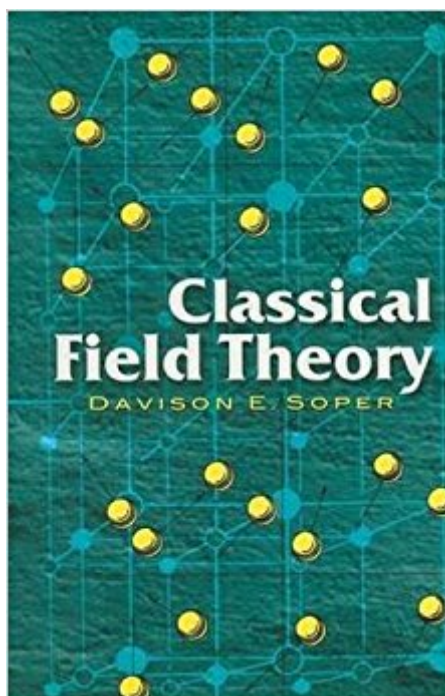


The book was found

Classical Field Theory (Dover Books On Physics)



Synopsis

This text concerns continuum mechanics, electrodynamics and the mechanics of electrically polarized media, and gravity. Geared toward advanced undergraduates and graduate students, it offers an accessible approach that formulates theories according to the principle of least action. The chief advantage of this formulation is its simplicity and ease, making the physical content of classical subjects available to students of physics in a concise form. Author Davison E. Soper, a Professor of Physics at the University of Oregon, intended this treatment as a primary text for courses in classical field theory as well as a supplement for courses in classical mechanics or classical electrodynamics. Topics include fields and transformation laws, the principle of stationary action, general features of classical field theory, the mechanics of fluids and elastic solids, special types of solids, nonrelativistic approximations, and the electromagnetic field. Additional subjects include electromagnetically polarized materials, gravity, momentum conservation in general relativity, and dissipative processes.

Book Information

Series: Dover Books on Physics

Paperback: 272 pages

Publisher: Dover Publications (February 4, 2008)

Language: English

ISBN-10: 0486462609

ISBN-13: 978-0486462608

Product Dimensions: 6.3 x 0.6 x 9.2 inches

Shipping Weight: 2.7 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 3 customer reviews

Best Sellers Rank: #432,881 in Books (See Top 100 in Books) #59 in [Books > Science & Math > Physics > Gravity](#) #92 in [Books > Science & Math > Physics > Waves & Wave Mechanics](#) #319 in [Books > Science & Math > Physics > Electromagnetism](#)

Customer Reviews

Nice

Extremely well written and formulated treatment of classical field theory. In particular his field theoretic treatment of fluids is very enlightening.

This is a well written book on Classical Field Theory. Not for undergraduates, because a good knowledge on tensor calculus is required for being read without any difficulties. The subjects are given compactly, with the minimum and necessary formulations. Along the whole book the author gives the adequate physical view on the subjects, which is always very much appreciated.

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

Classical Field Theory (Dover Books on Physics) Methods of Quantum Field Theory in Statistical Physics (Dover Books on Physics) Mathematics of Classical and Quantum Physics (Dover Books on Physics) Thermodynamics and the Kinetic Theory of Gases: Volume 3 of Pauli Lectures on Physics (Dover Books on Physics) Classical Mechanics: 2nd Edition (Dover Books on Physics) Physics for Kids : Electricity and Magnetism - Physics 7th Grade | Children's Physics Books
READING ORDER: TAMI HOAG: BOOKS LIST OF THE BITTER SEASON, KOVAC/LISKA BOOKS, HENNESSY BOOKS, QUAID HORSES, DOUCET BOOKS, DEER LAKE BOOKS, ELENA ESTES BOOKS, OAK KNOLL BOOKS BY TAMI HOAG Physics of Shock Waves and High-Temperature Hydrodynamic Phenomena (Dover Books on Physics) Boundary and Eigenvalue Problems in Mathematical Physics (Dover Books on Physics) Introduction to Light: The Physics of Light, Vision, and Color (Dover Books on Physics) Physics of Waves (Dover Books on Physics) Electronic Structure and the Properties of Solids: The Physics of the Chemical Bond (Dover Books on Physics) Modern Classical Physics: Optics, Fluids, Plasmas, Elasticity, Relativity, and Statistical Physics Lectures on Gas Theory (Dover Books on Physics) Symmetry: An Introduction to Group Theory and Its Applications (Dover Books on Physics) Theory of elasticity and plasticity (Dover books on engineering and engineering physics) Continuum Mechanics: Concise Theory and Problems (Dover Books on Physics) Quantum Theory of Many-Particle Systems (Dover Books on Physics) The Theory of Heat Radiation (Dover Books on Physics) The Classical Theory of Fields, Fourth Edition: Volume 2 (Course of Theoretical Physics Series)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)