



Beyond Classical Physics

By Cunning ham, Mark A.

Condition: New. Publisher/Verlag: Springer, Berlin | This undergraduate textbook discusses the nature of the microscopic universe from a modern perspective, based on Einstein's notions of relativity and Noether's proof of the emergence of conservation laws from symmetries of the equations of motion. These ideas drove the development of the Standard Model of particle physics and subsequent attempts to define a unified (string) theory. The second half of the book explores various aspects of many-body physics, ranging from chemical systems to plasmas to black holes. Like the previous textbook authored by by Mark Cunningham, Neoclassical Physics , this text uses a guided discovery approach of instruction, highlighting the experimental results that drove development of our modern picture of subatomic physics. Many problems utilize Mathematica® software to enable students to explore the meaning of different equations in a graphical manner. Students will gain an appreciation of the current state of physical theory, in preparation for more detailed, advanced study as upperclassmen. | Introduction.- Perception as Reality.- Classical Physics.- Quantum Physics.-Mathematical Insights.- On the Nature of the Photon.- Maxwell's Equations.- Radiation from Point Charges.- Relativistic Formulation.- Solitons.- On the Nature of the Electron.- Dirac Equation.- Renormalization.- Gyromagnetic Ratio.- Mathematical Inconsistencies.- On Atoms.-...



Reviews

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-- Mr. Johnathon Dach

Thorough guide! Its this sort of very good study. Yes, it really is play, nonetheless an interesting and amazing literature. You may like the way the blogger create this ebook.

-- Dameon Hettinger

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