Workshop Physics Activity Guide: Electricity and Magnetism Module 4 (Paperback)

By Priscilla W. Laws

John Wiley and Sons Ltd, United States, 2004. Paperback. Book Condition: New. 2nd Revised edition. 272 x 203 mm. Language: English . Brand New Book. The Workshop Physics Activity Guide is a set of student workbooks designed to serve as the foundation for a two semester calculus based introductory physics course. It consists of 28 units that interweave text materials with activities that include prediction, qualitative observation, explanation, equation derivation, mathematical modeling, quantitative experiments, and problem solving. Students use a powerful set of computer tools to record, display, and analyze data, as well as to develop mathematical models of physical phenomena. The design of many of the activities is based on the outcomes of physics education research. The Workshop Physics Activity Guide is supported by an Instructor s Website that: describes the history and philosophy of the Workshop Physics Project; provides advice on how to integrate the Guide into a variety of educational settings; provides information on computer tools (hardware and software) and apparatus; and includes suggested homework assignments for each unit. The Physics Suite contains a broad array of curricular materials that are based on physics education research, including: Understanding Physics , by Cummings, Laws, Redish and Cooney (an...

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