



Workshop Physics Activity Guide, Module 4: Electricity and Magnetism

Priscilla W. Laws

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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: (1) describes the history and philosophy of the Workshop Physics Project; (2) provides advice on how to integrate the Guide into a variety of educational settings; (3) provides information on computer tools (hardware and software) and apparatus; and (4) includes suggested homework assignments for each unit. Log on to the *Workshop Physics* Project website at <http://physics.dickinson.edu/>

Workshop Physics is a component of the *Physics Suite*—a collection of materials created by a group of educational reformers known as the *Activity Based Physics Group*. 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 introductory textbook based on the best-selling text by Halliday/Resnick/Walker)
- *RealTime Physics Laboratory Modules*
- *Physics by Inquiry* (intended for use in a workshop setting)
- *Interactive Lecture Demonstration*
- *Tutorials in Introductory Physics*
- *Activity Based Tutorials* (designed primarily for use in recitations)



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