

# Workshop Physics

ACTIVITY GUIDE

MODULE 4 | ELECTRICITY  
AND MAGNETISM

THIRD EDITION

PRISCILLA W. LAWNS | DAVID P. JACKSON | BRETT J. PEARSON



WILEY

# Workshop Physics Activity Guide Module 4 Answers

**DP Hallahan**

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*Workshop Physics Activity Guide Module 4* Priscilla W. Laws, David P. Jackson, Brett J. Pearson, 2024-08-13 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 four Modules with a total of 28 units that interweave text materials with activities that include prediction, qualitative observation, explanation, equation derivation, mathematical modeling, quantitative experiments and problem solving. The modules help students understand the basis of knowledge in physics as interplay between observations, experiments, definitions and mathematical theory. The inquiry based activities in the modules give students the opportunity to work collaboratively to solve problems while thinking critically to make predictions and observations. 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. Module 4: Unit 19 Electric Forces and Fields, Unit 20 Electric Flux and Gauss Law, Unit 21 Electric Potential, Unit 22 Introduction to Electric Circuits, Unit 23 Circuit Analysis, Unit 24 Capacitors and RC Circuits, Unit 25 Electronics, Unit 26 Magnets and Magnetic Fields, Unit 27 Electricity and Magnetism

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