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Munir H. Nayfeh is Professor of Physics at the Univeristy of Illinois at Urbana-Champaign. Morton K. Brussel is Professor Emeritus of Physics at the University of Illinois at Urbana-Champaign.

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A text for the standard electro-magnetism course for students in physics and engineering. Treats requisite theory with extensive examples of real-world applications. Offers coverage of topics neglected in most texts at this level, such as macroscopic vs. microscopic properties of matter. Also features a shorter, more student-oriented presentation of the material, larger problem sets, and thorough discussion of alternative solution methods.

Outstanding undergraduate text features self-contained chapter on vector algebra and a chapter devoted to radiation that illustrates many analysis methods. Includes 300 detailed examples, exercises at each chapter's end, and answers to odd-numbered problems.

Interest in and knowledge of the techniques utilised to investigate our solar system has been growing rapidly for decades and has now reached a stage of maturity. Therefore, the time has now arrived for a book that provides a cohesive and coherent account of how we have obtained our present knowledge of solar system objects, not including the Sun. Remote and Robotic Investigations of the Solar System covers all aspects of solar system observations: the instruments, their theory, and their practical use both on Earth and in space. It explores the state-of-the-art telescopes, cameras, spacecraft and instruments used to analyse the interiors, surfaces, atmospheres and radiation belts of solar system objects, in addition to radio waves, gamma rays, cosmic rays and neutrinos. This book would be ideal for university students undertaking physical science subjects and professionals working in the field, in addition to amateur astronomers and anyone interested in learning more about our local astronomical neighbours.

This book covers the basic theory of electrical circuits, describes analog and digital instrumentation, and applies modern methods to evaluate uncertainties in electrical measurements. It is comprehensive in scope and is designed specifically to meet the needs of students in physics and electrical engineering who are attending laboratory classes in electrical measurements. The topics addressed in individual chapters include the analysis of continuous current circuits; sources of measurement uncertainty and their combined effect; direct current measurements; analysis of alternating current circuits; special circuits including resonant circuits, frequency filters and impedance matching networks; alternating current measurements; analog and digital oscilloscopes; non-sinusoidal waveforms and circuit excitation by pulses; distributed parameter components and transmission lines. Each chapter is equipped with a number of problems. A special appendix describes a series of nine experiments, in each case providing a plan of action for students and guidance for tutors to assist in the preparation and illustration of the experiment.

This monograph surveys recent research on the collision and interaction of gravitational and electromagnetic waves. "This is a particularly important topic in general relativity," the author notes, "since the theory predicts that there will be a nonlinear interaction between such waves." Geared toward graduate students and researchers in general relativity, the text offers a comprehensive and unified review of the vast literature on the subject. The first eight chapters offer background, presenting the field equations and discussing some qualitative aspects of their solution. Subsequent chapters explore further exact solutions for colliding plane gravitational waves and the collision and interaction of electromagnetic waves. The final chapters summarize all related results for the collision of plane waves of different types and in non-flat backgrounds. A new postscript updates developments since the book's initial 1991 publication.