

AMERICAN JOURNAL *of* PHYSICS

Volume 85, No. 11, November 2017



A PUBLICATION OF THE AMERICAN ASSOCIATION OF PHYSICS TEACHERS

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American Journal Of Physics

Melba Phillips



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Introduction to Classical Mechanics David Morin, 2008-01-10 This textbook covers all the standard introductory topics in classical mechanics including Newton's laws oscillations energy momentum angular momentum planetary motion and special relativity It also explores more advanced topics such as normal modes the Lagrangian method gyroscopic motion fictitious forces 4 vectors and general relativity It contains more than 250 problems with detailed solutions so students can easily check their understanding of the topic There are also over 350 unworked exercises which are ideal for homework assignments Password protected solutions are available to instructors at www.cambridge.org/9780521876223 The vast number of problems alone makes it an ideal supplementary text for all levels of undergraduate physics courses in classical mechanics Remarks are scattered throughout the text discussing issues that are often glossed over in other textbooks and it is thoroughly illustrated with more than 600 figures to help demonstrate key concepts **The Pendulum** Michael Matthews, Colin F. Gault, Arthur Stinner, 2006-01-19 The pendulum is a universal topic in primary and secondary schools but its full potential for learning about physics the nature of science and the relationships between science mathematics technology society and culture is seldom realised Contributions to this 32 chapter anthology deal with the science history methodology and pedagogy of pendulum motion There is ample material for the richer and more cross disciplinary treatment of the pendulum from elementary school to high school and through to advanced university classes Scientists will value the studies on the physics of the pendulum historians will appreciate the detailed treatment of Galileo Huygens Newton and Foucault's pendulum investigations psychologists and educators will learn from the papers on Piaget teachers will welcome the many contributions to pendulum pedagogy All readers will come away with a new awareness of the importance of the pendulum in the foundation and development of modern science and for its centrality in so many facets of society and culture

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in Quantum Mechanics Marc Cahay, Supriyo Bandyopadhyay, 2017-03-14 This topical and timely textbook is a collection of problems for students researchers and practitioners interested in state of the art material and device applications in quantum mechanics Most problem are relevant either to a new device or a device concept or to current research topics which could spawn new technology It deals with the practical aspects of the field presenting a broad range of essential topics currently at the leading edge of technological innovation Includes discussion on Properties of Schroedinger Equation Operators Bound States in Nanostructures Current and Energy Flux Densities in Nanostructures Density of States Transfer and Scattering Matrix Formalisms for Modelling Diffusive Quantum Transport Perturbation Theory Variational Approach and their Applications to Device Problems Electrons in a Magnetic or Electromagnetic Field and Associated Phenomena Time dependent Perturbation Theory and its Applications Optical Properties of Nanostructures Problems in Quantum Mechanics For Material Scientists Applied Physicists and Device Engineers is an ideal companion to engineering condensed matter physics or materials science curricula It appeals to future and present engineers physicists and materials scientists as well as professionals in these fields needing more in depth understanding of nanotechnology and nanoscience **Miscellaneous Publication MP-14: Nuclear Science Teaching Aids and Activities** United States Civil and Defense Mobilization Office, 1959 Catalog of Copyright Entries Library of Congress. Copyright Office, 1977 **Nuclear Science Teaching Aids and Activities** United States. Office of Education, John H. Woodburn, 1959 Sourcebook of teaching aids and activities Page iii **Cumulative Ten-Year Index for the American Journal of Physics, 1983-1992** American Association of Physics Teachers, 1993-01-01 **50 Years On Teaching Physics** Melba Phillips, 1979 This book features a reprint collection of American Journal of Physics articles from the first half century of the American Association of Physics Teachers AAPT These often timeless articles are still significant in their impact on physics education today 50 Years On Teaching Physics brings together reflections on the first 25 years of the AAPT amongst these are the thoughts and opinions of recipients of the Oersted Medal the AAPT s most prestigious award which recognizes notable contributions to the teaching of physics Key highlights Millikan s idea of what makes a good teacher Historical detail from Klopsteg the founder of the AAPT and his ideas on the value of technology in a university The first Richtmyer lecture written by A H Compton soon after Pearl Harbor Robert W Pohl on Thomas Young s discovery of interference 50 Years On Teaching Physics is an excellent resource for those in physics education as well as general physics and the history of science *Catalog of Copyright Entries, Third Series* , 1961 **Bulletin of the United States Bureau of Labor Statistics** , 1913

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