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University Physics: A Calculus-Based Survey of Physics

By Mohammad Samiullah

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 480 pages. Dimensions: 11.2in. x 8.1in. x 1.2in. University Physics provides students with a solid foundation of introductory physics. The entire University Physics covers Mechanics, Gravitation, Waves, Sound, Fluids, Electricity, Magnetism, and Optics. Various concepts and ideas of physics are developed starting from a few basic principles. The examples in the book contain both the numerical and the symbolic problems. The level of the rigor is suitable for the students concurrently enrolled in the Calculus sequence in Mathematics. Detailed guided exercises and challenging problems help students develop their skills in problem solving. Volume 1: Fundamentals of Mechanics - Vectors, Kinematics, Newtons Laws of Motion, Impulse, Energy, Rotation Volume 2: Applications of Mechanics - Physics in Non-inertial Frames, Newtons Law of Gravitation, Simple Harmonic Motion, Mechanical Waves, Sound, Stress and Strain in Materials, Fluid Pressure, Fluid Dynamics. Volume 3: Heat, Temperature, Specific Heat, Thermal Expansion, Ideal Gas Law, First Law of Thermodynamics, Work by Gas, Second Law of Thermodynamics, Heat Engine, Carnot Cycle, Entropy, Kinetic Theory, Maxwells Velocity Distribution. Volume 4: Static Electricity, Coulombs Law, Electric Field, Gausss Law, Electric Potential, Metals and Dielectrics, Magnets, Magnetic Force,...



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