

100 Instructive Calculus-Based Physics Examples: Waves, Fluids, Sound, Heat, and Light (Paperback)

By Chris McMullen

Zishka Publishing, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.DESCRIPTION: over 100 fully-solved examplesstep-by-step solutions with explanationsstandard problems from physics with calculusincludes tables of equations, symbols, and units This volume covers waves, fluids, sound, heat, and light, including simple harmonic motion, standing waves, the Doppler effect, Archimedes principle, the laws of thermodynamics, heat engines, principles of optics, Snell s law, thin lenses, spherical mirrors, diffraction, interference, polarization, and more.AUTHOR: The author, Dr. Chris McMullen, has over 20 years of experience teaching university physics in California, Oklahoma, Pennsylvania, and Louisiana (and has also taught physics to gifted high school students). Dr. McMullen currently teaches physics at Northwestern State University of Louisiana. He has also published a half-dozen papers on the collider phenomenology of superstring-inspired large extra dimensions. Chris McMullen earned his Ph.D. in particle physics from Oklahoma State University (and his M.S. in physics from California State University, Northridge).Dr. McMullen is well-known for: engaging physics students in challenging ideas through creativitybreaking difficult problems down into manageable stepsproviding clear and convincing explanations to subtle issueshis mastery of physics and strong background in mathematicshelping students become more fluent in practical math skillsMATH REVIEW: A separate chapter...



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