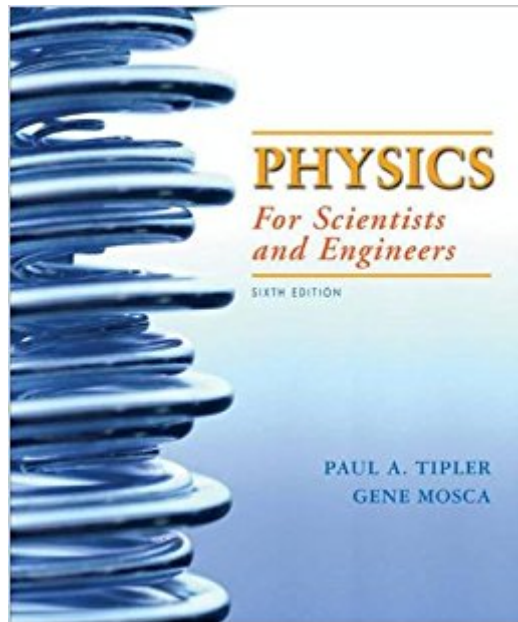The book was found

Physics For Scientists And Engineers, Vol. 1, 6th: Mechanics, Oscillations And Waves, Thermodynamics,

Synopsis

The Sixth Edition offers a completely integrated text and media solution that will enable students to learn more effectively and professors to teach more efficiently. The text includes a new strategic problem-solving approach, an integrated Maths Tutorial, and new tools to improve conceptual understanding.

Book Information

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Customer Reviews

It can safely be said that a good physics class truly tests the potential to do science, and maybe even the general intelligence factor. Good memorization, math skills, and general interest might get one far enough along in school before science is studied in a serious manner, but a solid introduction to physics as Tipler and Mosca have designed will kick out all of these crutches. It isn't that a natural appreciation for the outer trappings of the hard sciences won't help, but "Physics for Scientists and Engineers" confronts the issue of what a scientist does: analytical thinking, experimentation, and applying fundamental principles to understand novel and complex interactions.One of the most enjoyable parts of the book is the multi-step and advanced problem sets, which refuse to yield to a simple exercise in basic algebra. Others are deliberately included for their counter-intuitive results. This book forces you to think like a physicist. The use of calculus is minimal in this first volume of the series, but formulas are developed with increasing complexity until they properly reach the general form (e.g. Work = force*distance -> force*distance*cos(angle) -> the line integral of the dot product between the force vector function with the instantaneous displacement vector).The illustrations are very well done, although they could be more helpful if

repeated at different scales and centerings in order to reinforce deeper conceptual understanding while plodding through procedure. The book is slim enough to comfortably weather a moderate increase in the page count.

Physics for Scientists and Engineers, Vol. 1, 6th: Mechanics, Oscillations and Waves, Thermodynamics, The Wave Watcher's Companion: From Ocean Waves to Light Waves via Shock Waves, Stadium Waves, andAll the Rest of Life's Undulations Physics for Scientists and Engineers, Technology Update, Hybrid Edition (with Enhanced WebAssign Multi-Term LOE Printed Access Card for Physics) Physics for Scientists & Engineers with Modern Physics (4th Edition) Thermodynamics With Quantum Statistical Illustrations. Monographs in Statistical Physics and Thermodynamics, Volume 2 Student Study Guide and Selected Solutions Manual for Scientists & Engineers with Modern Physics, Vol. 1 Water Wave Mechanics for Engineers and Scientists: 2 (Advanced Series on Ocean Engineering) Quantum Mechanics for Scientists and Engineers Water Wave Mechanics for Engineers & Scientists (Advanced Series on Ocean Engineering-Vol2) (v. 2) Fisica para ciencias e ingenieria/ Physics For Scientists And Engineers (Spanish Edition) Physics for Scientists and Engineers, Volume 2: (Chapters 21-33) Physics for Scientists and Engineers with Modern, Chapters 1-46 Fundamentals of Physics: Mechanics, Relativity, and Thermodynamics (The Open Yale Courses Series) Physics of Shock Waves and High-Temperature Hydrodynamic Phenomena (Dover Books on Physics) Thermodynamics, Statistical Thermodynamics, & Kinetics (3rd Edition) FORTRAN 77 and Numerical Methods for Engineers and Scientists Introduction to Probability and Statistics for Engineers and Scientists, Fifth Edition Feedback Systems: An Introduction for Scientists and Engineers Digital Signal Processing: A Practical Guide for Engineers and Scientists Discovering Modern C++: An Intensive Course for Scientists, Engineers, and Programmers (C++ In-Depth)