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Principles of Physics: For Scientists and Engineers (Undergraduate Lecture Notes in Physics)

Hafez A. Radi, John O Rasmussen

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This textbook presents a basic course in physics to teach mechanics, mechanical properties of matter, thermal properties of matter, elementary thermodynamics, electrodynamics, electricity, magnetism, light and optics and sound. It includes simple mathematical approaches to each physical principle, and all examples and exercises are selected carefully to reinforce each chapter. In addition, answers to all exercises are included that should ultimately help solidify the concepts in the minds of the students and increase their confidence in the subject. Many boxed features are used to separate the examples from the text and to highlight some important physical outcomes and rules. The appendices are chosen in such a way that all basic simple conversion factors, basic rules and formulas, basic rules of differentiation and integration can be viewed quickly, helping student to understand the elementary mathematical steps used for solving the examples and exercises.

Instructors teaching form this textbook will be able to gain online access to the solutions manual which provides step-by-step solutions to all exercises contained in the book. The solutions manual also contains many tips, colored illustrations, and explanations on how the solutions were derived.

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