



# Physics for Scientists and Engineers: A Strategic Approach with Modern Physics (2nd Edition)

*Randall D. Knight (Professor Emeritus)*

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**KEY MESSAGE:** As the most widely adopted new physics text in more than 50 years, Knight's **Physics for Scientists and Engineers** was published to widespread critical acclaim from professors and students. In this eagerly awaited second edition, Knight builds on the research-proven instructional techniques he introduced, as well as national data of student performance, to take student learning even further. Knight's unparalleled insight into student learning difficulties, and his impeccably skillful crafting of text and figures at every level — from macro to micro — to address these difficulties, results in a uniquely effective and accessible book, leading students to a deeper and better-connected understanding of the concepts and more proficient problem-solving skills. Building on an NSF-sponsored educational research program and input from tens of thousands of student users, the second edition refines and extends the pedagogical innovations that years of use has now shown to be effective. Unprecedented analysis of national student metadata has allowed every problem to be systematically enhanced for educational effectiveness, and to ensure problem sets of ideal topic coverage, balance of qualitative and quantitative problems, and range of difficulty and duration.

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**MARKET:** For all readers interested in leading students to a deeper and better-connected understanding of the concepts and more proficient problem-solving skills.

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