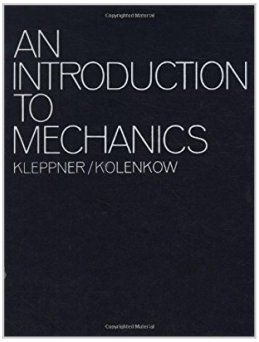

An Introduction To Mechanics

By Daniel Kleppner, Robert Kolenkow

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In the years since it was first published in 1973 by McGraw-Hill, this classic introductory textbook has established itself as one of the best-known and most highly regarded descriptions of Newtonian mechanics. Intended for undergraduate students with foundation skills in mathematics and a deep interest in physics, it systematically lays out the principles of mechanics: vectors, Newton's laws, momentum, energy, rotational motion, angular momentum and noninertial systems, and includes chapters on central force motion, the harmonic oscillator, and relativity. Numerous worked examples demonstrate how the principles can be applied to a wide range of physical situations, and more than 600 figures illustrate methods for approaching physical problems. The book also contains over 200 challenging problems to help the student develop a strong understanding of the subject. Password-protected solutions are available for instructors at www.cambridge.org/9780521198219.

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Editorial Review

Review
Endorsement: "Kleppner and Kolenkow's An Introduction to Dynamics is a classic textbook as useful today as when it was first published in 1973. It covers classical mechanics and energy through planetary orbits and oscillators as well as special relativity helping well-prepared freshmen to develop the conceptual understanding and mathematical confidence to tackle the analytical dynamics and quantum mechanics that is to come. Of particular note is the treatment of the difficult subject of rigid body dynamics. The worked examples and problems thoughtfully confront and resolve many of the confusions that students typically encounter."
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Bruce Winstein, University of Chicago

About the Author
Daniel Kleppner is Lester Wolfe Professor of Physics, Emeritus, at Massachusetts Institute of Technology. For his contributions to teaching he has been awarded the Oersted Medal by the American Association of Physics Teachers and the Lilienfeld Prize of the American Physical Society. He has also received the Wolf Prize and the National Medal of Science.

Robert Kolenkow was Associate Professor of Physics at Massachusetts Institute of Technology. Renowned for his skills as a teacher, Kolenkow was awarded the Everett Moore Baker Award for Outstanding Teaching. He has since retired.

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