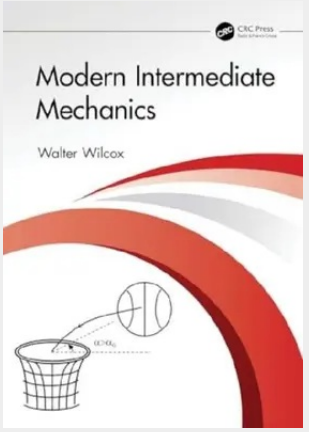
Wilcox

Modern Intermediate Mechanics

Modern Intermediate Mechanics (MIM) covers all the basic concepts of classical mechanics. It can serve as a foundational text for a one-semester course or a complete two-semester sequence for intermediate-level undergraduate students in physics or engineering. It includes a comprehensive coverage of the ideas at a basic level (Part I) and at an advanced level (Part II). In addition: - MIM has many modern applications including Green functions (Chapter 3), Dirac delta functions (Chapter 3), chaos theory (Chapter 4), variational theory (Chapter 6), Runge-Lenz treatment of celestial mechanics (Chapter 8), aspects of General Relativity (Chapter 8), gravitational light deflection (Chapter 9), the Foucault pendulum (Chapter 10), as well as the concept of the “light cone” in special relativity (Chapter 13) - MIM hits the “sweet spot” level of mathematical rigor. The student is challenged but in an engaging manner - MIM has many complete, solved examples in the text as well as 290 original problems arranged by section number. This arrangement is helpful to instructors who need to know quickly which problems to assign for a given text coverage



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