



Elements of Mechanics

P.F. Kelly

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The specific topics covered in **Elements of Mechanics** include:

- Kinematics in one and more dimensions in Cartesian and polar coordinates
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- Energetics, work–energy theorems, conservative forces, and potential energy
- Impulse and momentum, systems of particles and rigid bodies
- Rigid body rotational kinematics, dynamics, and energetics
- Statics
- Newton's Law of Universal Gravitation

The book prepares undergraduate students majoring in the natural sciences and engineering for intermediate and advanced classes in their disciplines which rely upon this foundational material. It also supplies a comprehensive review in preparation for graduate or professional exams. Therefore, the series is structured in such manner that the second and third books, *Properties of Materials* and *Electricity and Magnetism*, follow upon the first, but may be read independently of each other. Written in a conversational and accessible style, the material is presented in standard, canonical sequence. Worked examples and collections of problems serve to illustrate and illuminate subject material in each volume.

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