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mechanics is the first and most fundamental branch of physics, supporting Thermodynamics and Electricity, and including Statics, Dynamics (= Kinematics + kinetics); all of which are highly

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applicable in engineering.
but the most important part
of them is statics (study of
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examples, problems and
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mechanics, while Chapter 2, presents preliminary knowledge, preparing readers for the subsequent chapters. Chapters 3 to 7 introduce statics, force analysis, simplification of force groups, equilibrium of the

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general coplanar force group, and the center of the parallel force group. The Kinematics section (Chapters 8 to 10), covers the motion of a particle, basic motion and planar motion of a rigid body. Lastly, the Kinetics

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energy method for particles
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angular momentum of
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kinematics of rigid bodies .
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energy method for rigid
bodies . . . 15. Impulse
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- . . 16. Three-dimensional kinematics of rigid bodies .
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