Multi-Body Dynamics. Vehicles, Machines and Mechanisms

Description: Multi-Body Dynamics: Vehicles, Machines, and Mechanisms opens by providing an understanding of engineering dynamics and then leads on to the analysis, techniques, and problem solving approaches.

Contents: Dedication.

About the author.

Preface.

Chapter 1. Vectors and transformations.

Chapter 2. Kinematics and dynamics of particles and rigid bodies.

Chapter 3. Constraints formulation in multi-body systems.

Chapter 4. Multi-body dynamic analysis.

Chapter 5. Multi-body dynamics: solution methodology.

Chapter 6. Engine dynamics.

Chapter 7. Power train dynamics.

Chapter 8. Optimal control of multi-body systems.

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