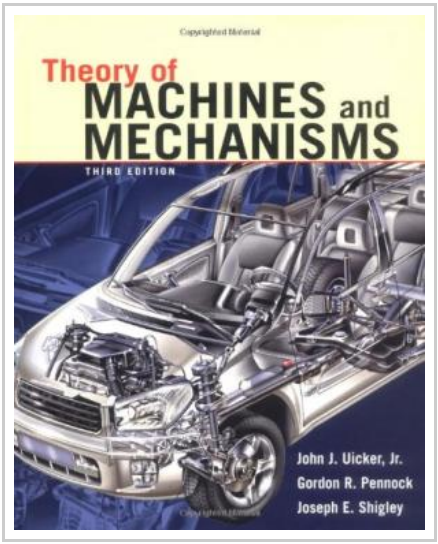




# Theory of Machines and Mechanisms

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Oxford University Press, 2003. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface Part 1. Kinematics and Mechanisms 1. The World of Mechanisms 1.1. Introduction 1.2. Analysis and Synthesis 1.3. The Science of Mechanics 1.4. Terminology, Definitions, and Assumptions 1.5. Planar, Spherical, and Spatial Mechanisms 1.6. Mobility 1.7. Classification of Mechanisms 1.8. Kinematic Inversion 1.9. Grashof's Law 1.10. Mechanical Advantage 1.11. Problems 2. Position and Displacement 2.1. Locus of a Moving Point 2.2. Position of a Point 2.3. Position Difference between Two Points 2.4. Apparent Position of a Point 2.5. Absolute Position of a Point 2.6. The Loop-Closure Equation 2.7. Graphic Position Analysis 2.8. Algebraic Position Analysis 2.9. Complex-Algebra Solutions of Planar Vector Equations 2.10. Complex Polar Algebra 2.11. Position Analysis Techniques 2.12. The Chace Solutions to Planar Vector Equations 2.13. Coupler Curve Generation 2.14. Displacement of a Moving Point 2.15. Displacement Difference between Two Points 2.16. Rotation and Translation 2.17. Apparent Displacement 2.18. Absolute Displacement 2.19. Problems 3. Velocity 3.1. Definition of Velocity 3.2. Rotation of a Rigid Body 3.3. Velocity Difference between Points of a Rigid Body 3.4. Geometric Methods; Velocity Polygons 3.5. Apparent Velocity of a Point in a Moving Coordinate...



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