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SEVENTH EDITION

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Arthur Peter Boresi



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that require high precision and stiffness or a high load capacity relative to robot weight. Although many industrial applications have adopted parallel structures for their design, few textbooks introduce the analysis of such robots in terms of dynamics and control. Filling this gap, *Parallel Robots: Mechanics and Control* presents a systematic approach to analyze the kinematics, dynamics, and control of parallel robots. It brings together analysis and design tools for engineers and researchers who want to design and implement parallel structures in industry. Covers Kinematics, Dynamics, and Control in One Volume. The book begins with the representation of motion of robots and the kinematic analysis of parallel manipulators. Moving beyond static positioning, it then examines a systematic approach to performing Jacobian analysis. A special feature of the book is its detailed coverage of the dynamics and control of parallel manipulators. The text examines dynamic analysis using the Newton-Euler method, the principle of virtual work, and the Lagrange formulations. Finally, the book elaborates on the control of parallel robots, considering both motion and force control. It introduces various model-free and model-based controllers and develops robust and adaptive control schemes. It also addresses redundancy resolution schemes in detail.

Analysis and Design Tools to Help You Create Parallel Robots In each chapter, the author revisits the same case studies to show how the techniques may be applied. The case studies include a planar cable-driven parallel robot, part of a promising new generation of parallel structures that will allow for larger workspaces. The MATLAB code used for analysis and simulation is available online. Combining the analysis of kinematics and dynamics with methods of designing controllers, this text offers a holistic introduction for anyone interested in designing and implementing parallel robots.

Mechanics Dynamics J. L. Meriam, 1959 **Engineering Mechanics, Dynamics, Study Guide** J. L. Meriam, L. G. Kraige, 1997-03-21 This concise and authoritative book emphasizes basic principles and problem formulation. It illustrates both the cohesiveness of the relatively few fundamental ideas in this area and the great variety of problems these ideas solve. All of the problems address principles and procedures inherent in the design and analysis of engineering structures and mechanical systems, with many of the problems referring explicitly to design considerations.

Applied Mechanics Reviews, 1966 **Study Guide to Accompany Engineering Mechanics: Dynamics** James L. Meriam, 1997 **Engineering Education**, 1980 **Study Guide to Accompany Engineering Mechanics** James L. Meriam, J. M. Henderson, 1992 **Solutions Manual [to Accompany] Engineering Mechanics** R. C. Hibbeler, S. C. Fan, 2004 **Mechanical Vibration** Haym Benaroya, 2004-10-13

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Solutions Manual, Engineering Mechanics Irving Herman Shames, 1967

Solutions Manual to Accompany Engineering Mechanics, Dynamics Joseph F. Shelley, 1981

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