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By Moon, Francis C.

Wiley-VCH, 1998. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: A Modern, Practical Treatment of Dynamics for the Intermediate Reader Applied Dynamics presents a modern treatment of dynamics not found in any other book. It introduces concepts of multibody dynamics, mechatronic dynamics, and nonlinear dynamics as well as traditional dynamics and examines underlying principles in the context of present-day computational methods. The book offers insight into modern analytical tools such as virtual power and Lagrange's equations through a focus on real-world examples and applications including robotic systems, magnetic bearings, aerospace dynamics, and microelectromagnetic machines. Based on Francis C. Moon's successful Intermediate Dynamics course at Cornell University, Applied Dynamics meets the growing need for an intermediate text that will help students develop practical problem-solving skills. This timely and useful volume: Introduces the modern method of virtual power (Kane/Jourdain methods) as well as traditional methods of Newton-Euler and Lagrange equations Illustrates applications and phenomena of modern dynamics with numerous examples, graphics, and homework problems Demonstrates the solution of dynamics problems using modern software tools such as MATLAB and Mathematica Discusses both matrix and vector methods Explains the derivation of equation of motion in electromechanical systems Reviews important...



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