



Kinematic Design of Machines and Mechanisms

Homer D. Eckhardt

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The First Complete and Practical Guide to the Integration, Design, and Analysis of Machines and their Motions.

Designed to improve the engineer's intuitive approach to machine design, this practical guide offers a clear understanding of the principles of the geometry of motion and the real-world connections between kinematic phenomena and the behavior of actual machines. It provides all of the information and graphical tools and techniques you'll need to select, visualize, integrate, and analyze machines and mechanisms for a wide range of applications. Building logically from the simplest, most easily visualized mechanisms and motions to the more complex, you'll get complete, well-illustrated coverage of: crank-sliders and inverted crank-sliders; pin-jointed and general four-bar linkages; multiloop linkages; gears and gear trains; quick-return mechanisms; cams. In addition, you'll find step-by-step procedures for designing mechanical systems to give prescribed motions--plus, proven methods for analyzing displacements, velocities, accelerations, force and torque relationships, and statically and dynamically balancing systems.

This unique reference is a must-reading for every engineer and designer who wants to fully exploit CAD's capabilities by minimizing the trail-and-error involved in searching for satisfactory machine design solutions.

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