



Mechanisms and Mechanical Devices Sourcebook, 5th Edition

Neil Sclater

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THOUSANDS OF DRAWINGS AND DESCRIPTIONS COVER INNOVATIONS IN MECHANICAL ENGINEERING

Fully revised throughout, this abundantly illustrated reference describes proven mechanisms and mechanical devices. Each illustration represents a design concept that can easily be recycled for use in new or modified mechanical, electromechanical, or mechatronic products. Tutorials on the basics of mechanisms and motion control systems introduce you to those subjects or act as a refresher.

Mechanisms and Mechanical Devices Sourcebook, Fifth Edition, contains new chapters on mechanisms for converting renewable energy into electrical power, 3D digital prototyping and simulation, and progress in MEMS and nanotechnology based on carbon nanotubes. A new chapter on stationary and mobile robots describes their roles in industry, science, national defense, and medicine. The latest advances in rapid prototyping are also discussed. This practical guide will get you up to speed on many classical mechanical devices as well as the hot new topics in mechanical engineering.

COMPREHENSIVE INDEX MAKES IT EASY TO FIND SUBJECTS OF INTEREST

GLOSSARIES OF TERMS ON: CAMS, GEARS, MECHANICS, MOTION CONTROL, ROBOTICS, WIND TURBINES, PUMPS, AND 3D DIGITAL PROTOTYPING AND SIMULATION

COVERAGE OF MOBILE ROBOTS THAT EXPLORE MARS, PERFORM MILITARY DUTIES AND PUBLIC SERVICE, HANDLE AUTOMATED DELIVERY, CONDUCT SURVEILLANCE FROM THE AIR, AND SEARCH UNDER THE SEA

DETAILS ON THE MECHANISMS IN RENEWABLE-ENERGY AND WIND-TURBINE AND SOLAR-THERMAL FARMS AND WAVE-MOTION POWER PLANTS

Mechanisms and Mechanical Devices Sourcebook, Fifth Edition, covers:

Basics of mechanisms * Motion control systems * New stationary and mobile robots * New mechanisms for renewable power generation * Drives and mechanisms with linkages, gears, cams, genevas, and ratchets * Clutches and brakes * Latching, fastening, and clamping devices and mechanisms * Chains, belts, springs, and screws * Shaft couplings and connections * Motion-specific devices * Packaging, conveying, handling, and safety mechanisms and machines * Torque, speed, tension, and limit control systems * Instruments and controls: pneumatic, hydraulic, electric, and electronic * New 3D digital prototyping and simulation techniques * New rapid prototyping methods * New directions in mechanical engineering

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