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Revised edition of: Mechanisms & mechanical devices sourcebook / [edited by] Nicholas P. Chironis, Neil Sclater. 2nd ed. 1996. Description: xv, 495 pages : illustrations ; 29 cm: Contents: ch. 1. Motion control systems --ch. 2. Robot mechanisms --ch. 3. Parts-handling mechanisms --ch. 4. Reciprocating and general-purpose mechanisms --ch. 5.

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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, gears, 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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thousands of proven mechanisms illustrated and described are many suitable for recycling into new mechanical, electromechanical, or mechatronic products and systems. Overviews of robotics, rapid prototyping, MEMS, and nanotechnology will get you up-to-speed on these cutting-edge technologies. Easy-to-read tutorial chapters on the basics of mechanisms and motion control will introduce those subjects to you or refresh your knowledge of them. Comprehensive index to speed your search for topics of interest Glossaries of terms for gears, cams, mechanisms, and robotics New industrial robot specifications and applications Mobile robots for exploration, scientific research, and defense INSIDE Mechanisms and Mechanical Devices Sourcebook, 4th Edition Basics of Mechanisms □ Motion Control Systems □ Industrial Robots □ Mobile Robots □ Drives and Mechanisms That Include Linkages, Gears, Cams, Geneva, and Ratchets □ Clutches and Brakes □ Devices That Latch, Fasten, and Clamp □ Chains, Belts, Springs, and Screws □ Shaft Couplings and Connections □ Machines That Perform Specific Motions or Package, Convey, Handle, or Assure Safety □ Systems for Torque, Speed, Tension, and Limit Control □ Pneumatic, Hydraulic, Electric, and Electronic Instruments and Controls □ Computer-Aided Design Concepts □ Rapid Prototyping □ New Directions in Mechanical Engineering

This heavily illustrated reference has been revised and expanded to offer machine designers and engineers practical guidance on the operation of a wide range of mechanisms and devices. Over 1,200 drawings are included from a broad selection of mechanical components and assemblies found in home appliances, office machines, vehicles, aircraft, ships, construction and factory equipment and machine tools.

2,501 mechanisms and mechanical devices □ at your fingertips! A one-of-a-kind pictorial directory, Mechanisms and Mechanical Devices Sourcebook, Third Edition, gives you drawings and descriptions of time-tested components, mechanisms, and devices. A carefully compiled index lets you quickly find a specific component which may very well be the exact problem-solving answer you've been seeking. You can count on this guide to help you: * Recycle successful mechanical inventions into new products, with or without modifications * Design basic mechanisms from scratch with a chapter of tutorial text and formulas * Save time researching patents * Get a refresher on the design and function of bearings, belts, brakes, clutches, couplings, cranks, feeders, gears, genevas, joints, latches, linkages, pumps, screws, springs, and switches Stay on top of present and future trends in mechanical engineering and machine design, with up-to-date treatments of motion control systems; 2D and 3D CAD software; industrial robots and rapid prototyping (RP) systems; recent research and spinoffs of MEMS technology

A fully illustrated reference book giving an easy-to-understand introduction to compliant mechanisms A broad compilation of compliant mechanisms to give inspiration and guidance to those interested in using compliant mechanisms in their designs, the Handbook of Compliant Mechanisms includes graphics and descriptions of many compliant mechanisms. It comprises an extensive categorization of devices that can be used to help readers identify compliant mechanisms related to their application. It also provides chapters on the basic background in compliant mechanisms, the categories of compliant mechanisms, and an example of how the Compendium can be used to facilitate compliant mechanism design. Fully illustrated throughout to be easily understood and accessible at introductory levels Covers all aspects pertaining to classification, elements, mechanisms and applications of compliant mechanisms Summarizes a vast body of knowledge in easily understood diagrams and explanations Helps readers appreciate the advantages that compliant mechanisms have to offer Practical approach is ideal for potential practitioners who would like to realize designs with compliant

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mechanisms, members and elements Breadth of topics covered also makes the book a useful reference for more advanced readers Intended as an introduction to the area, the Handbook avoids technical jargon to assist non engineers involved in product design, inventors and engineers in finding clever solutions to problems of design and function.

With illustrations, this book offers a compendium of the most frequently used mechanical components, represented graphically. It provides the most commonly used design formulas as well as additional structural data, and is useful for an engineer.

A concise survey of compliant mechanisms-from fundamentals to state-of-the-art applications This volume presents the newest and most effective methods for the analysis and design of compliant mechanisms. It provides a detailed review of compliant mechanisms and includes a wealth of useful design examples for engineers, students, and researchers. Concise chapters guide the reader from simple to more challenging concepts-using examples of increasing complexity-eventually leading to real-world applications for specific types of devices. The author focuses on compliant mechanisms that can be designed using both standard linear beam equations and more advanced pseudo-rigid-body models. He describes a number of special-purpose compliant mechanisms that have use across a wide range of applications and discusses compliant mechanisms in microelectromechanical systems (MEMS) with several accompanying MEMS examples. Coverage of essential topics in strength of materials, machine design, and kinematics is provided to allow for a self-contained book that requires little additional reference to solve compliant mechanism problems. This information can be used as a refresher on the basics or as resource material for readers from other disciplines currently working in MEMS. Compliant Mechanisms serves as both an introductory text for students and an up-to-date resource for practitioners and researchers. It provides comprehensive, expert coverage of this growing field.

"Many contributors have submitted for publication in Machinery's columns most of the mechanical movements described."

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Invaluable to anyone who designs, repairs, or operates machines, this sourcebook contains

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2000 illustrations of the most commonly used components found in home appliances, office machines, vehicles, aircraft, ships, construction, factory equipment, and machine tools. The author also includes design formulas and structural data. Contents: Mechanisms * Machine Elements * Gearing * Fluid-Filled Bearing * Bearings with Rolling Contact * Packing and Seals * Pipe, Fitting, and Valves * Key Equations and Charts for Designing Mechanisms

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