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# Mechanisms and Mechanical Devices Sourcebook

*By Neil Sclater, Nicholas P. Chironis*



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This heavily illustrated reference is revised and expanded to offer machine designers and engineers practical guidance on the operation of a wide range of mechanisms and devices. The update features a collection of stimulating, easy-to-read articles-24 new to this edition-most of which were previously published in engineering magazines. The Second Edition now contains over 1,200 drawings of a broad selection of mechanical components and assemblies found in home appliances, office machines, vehicles, aircraft, ships, construction and factory equipment, and machine tools. The illustrations will help readers understand how universal mechanisms and devices work.



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## **Editorial Review**

From the Back Cover

This sourcebook contains more than 2300 drawings in descriptive articles and extensive pictorial directories. This ready reference explains how clutches, devices, drives, linkages, and other mechanical assemblies work in machine tools; production and process plants; aircraft, automotive, and construction equipment; instruments; and consumer goods. It also includes data, tables, and formulas for the design of various mechanisms. The topics covered include: reciprocating and general-purpose mechanisms; cam, toggle, chain, and belt mechanisms; geared systems and variable-speed mechanisms; spring, bellows, flexure, screw, and ball devices; coupling, clutching, and breaking devices; torque-limiting, tensioning, and governing devices; fastening, latching, clamping, and chucking devices; new directions in machine design. This second edition contains many new articles and drawings illustrating the ongoing merger of mechanical technology, electronics, and computer science. A complex index helps you find the information you want on any device in an instant.

## **Users Review**

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**Alejandra Dunlap:**

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