



# Machine Devices and Components Illustrated Sourcebook

By Robert Parmley

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

#### Review

Henry Ford claimed to have invented nothing new but simply to have combined the discoveries of others. Similarly, modern designers of complex devices, even those as innovative as the Segway, rely on earlier designers for many of the basic elements in the new device. The trick is to be aware of these earlier designs. Sourcebooks such as Parmley's are a primary source of such information. It is the latest in a line extending at least from Ramelli in the 16th century through Henry T. Brown's 1868 "Five Hundred and Seven Mechanical Movements..." (many reprint eds.); "Mechanisms and Mechanical Devices Sourcebook," comp. by Nicholas P. Chironis (CH, Mar'92); Preben W. Jensen's "Classical and Modern Mechanisms for Engineers and Inventors" (1991); and Parmley's own more quantitative and analytical "Illustrated Sourcebook of Mechanical Components" (2000). Here Parmley, a registered professional engineer, reproduces more than 1,500 clearly diagrammed, ingenious and practical mechanisms selected from specialist engineering journals. He divides them into three categories: assemblies (to minimize vibration, limit torque and/or overloading); power transmission (gear systems, clutches, chains, belts, shafts); and individual components. An engineering library should have at least one of these modern sourcebooks; Parmley's is an excellent example.

**Summing Up:** High recommended. Upper-division undergraduates; professionals; two-year technical program students. -- "G.E. Herrick, emeritus, Maine Maritime Academy"

#### From the Back Cover

### THE ULTIMATE COMPENDIUM OF MECHANICAL PARTS AND INGENIOUS DEVICES

This user-friendly, visual guide to parts and assemblies is an ideal working tool for anyone who designs, repairs, or operates machinery. Robert O. Parmley's *Machine Devices and Components: Illustrated Sourcebook* gives quick access to detailed images of hundreds of machine parts. Illustrated mechanisms include cams, gears, clutches, fasteners, housing mechanisms, and rotary and reciprocating elements.

The book features hundreds upon hundreds of components commonly used in home appliances, office machines, vehicles, aircraft, ships, construction, factory equipment, machine tools. The book also includes accompanying standards tables, design formulas, and classical analytical methods that provide additional help with selection and problem-solving challenges. No working engineer or technician will want to be without this amazing book.

### HUNDREDS OF DEVICES, PLUS KEY DATA AND EQUATIONS

Mechanisms \* Machine Elements \* Gearing \* Assemblies \* Bearings with Rolling Contact \* Pipes, Fittings, and Valves \* Key Equations and Charts for Designing Mechanisms

#### About the Author

**Robert O. Parmley, P.E., CMfgE, CSI**, is co-founder, President and Principal Consulting Engineer of Morgan & Parmley, Ltd., Professional Consulting Engineers, Ladysmith, Wisconsin. He is also a member of the National Society of Professional Engineers, the American Society of Mechanical Engineers, the American Society of Civil Engineers, the Construction Specifications Institute, the American Design Drafting Association, the American Society of Heating, Refrigerating, and Air-Conditioning Engineers, and the Society of Manufacturing Engineers, and is listed in the AAES *Who's Who in Engineering*. Mr. Parmley holds a BSME and an MSCE from Columbia Pacific University and is a registered professional engineer in Wisconsin, California, and Canada. He is also a certified manufacturing engineer under SME's national

cerification program and a certified wastewater plant operator in the State of Wisconsin. In a career covering more than four decades, Mr. Parmley has worked on the design and construction supervision of a wide variety of structures, systems, and machines -- from dams and bridges to municipal sewage treatment facilities and municipal water projects.

The author of over 40 technical articles published in leading professional journals, he is also the Editor-in-Chief of the *Illustrated Sourcebook of Mechanical Components*; the *HVAC Field Manual*; the *Hydraulics Field Manual*, now in its Second Edition; the *HVAC Design Data Sourcebook*; the *Mechanical Components Handbook*; the *Civil Engineer's Illustrated Sourcebook*; the *Standard Handbook of Fastening & Joining*, now in its Third Edition; and the *Field Engineer's Manual*, now in its Third Edition, all published by McGraw-Hill.

## Users Review

### From reader reviews:

#### **Erma Carver:**

Here thing why this Machine Devices and Components Illustrated Sourcebook are different and trustworthy to be yours. First of all looking at a book is good nonetheless it depends in the content from it which is the content is as scrumptious as food or not. Machine Devices and Components Illustrated Sourcebook giving you information deeper and in different ways, you can find any book out there but there is no book that similar with Machine Devices and Components Illustrated Sourcebook. It gives you thrill studying journey, its open up your personal eyes about the thing that will happened in the world which is maybe can be happened around you. It is easy to bring everywhere like in park, café, or even in your technique home by train. In case you are having difficulties in bringing the imprinted book maybe the form of Machine Devices and Components Illustrated Sourcebook in e-book can be your choice.

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