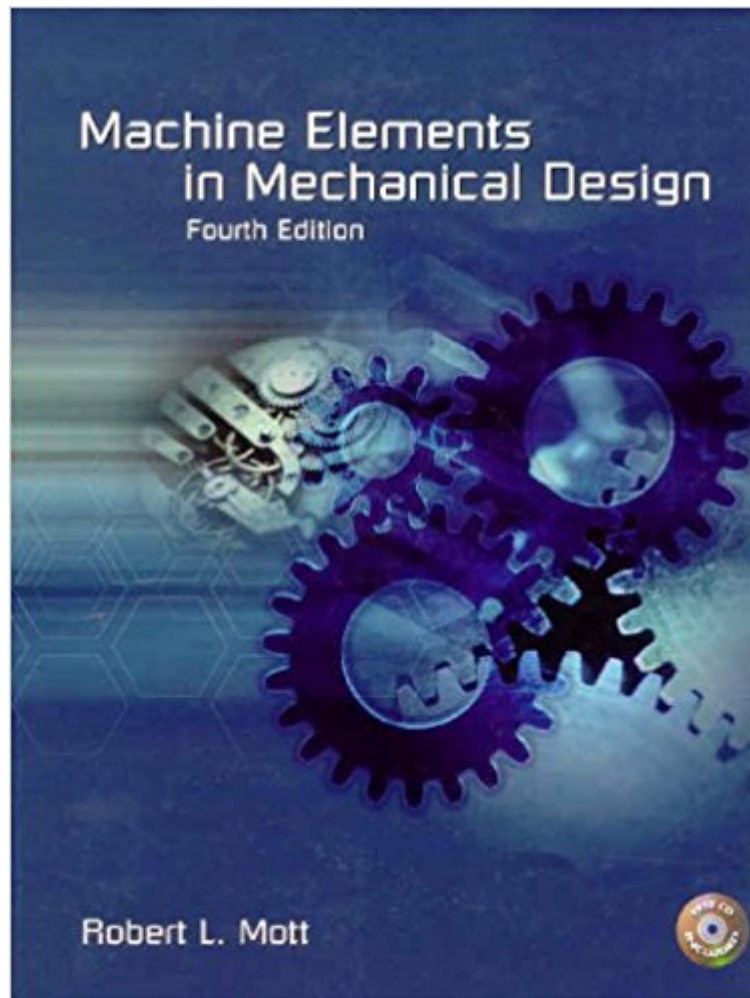




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# Machine Elements In Mechanical Design (4th Edition)



## Synopsis

Using the most up-to-date information, this book provides a practical approach to designing machine elements in the context of complete mechanical design. Covering some of the primary machine elements such as belt drives, chain drives, gears, shafts, keys, couplings, seals, and rolling contact bearings. It also covers plain surface bearings, linear motion elements, fasteners, springs, machine frames, bolted connections, welded joints, electric motors, controls, clutches, and brakes. This book is for any individual design professional for which a practical approach to mechanical design, based on sound engineering principles, is desired.

## Book Information

Hardcover: 944 pages

Publisher: Pearson; 4th edition (July 26, 2003)

Language: English

ISBN-10: 0130618853

ISBN-13: 978-0130618856

Product Dimensions: 8.2 x 1.5 x 10.1 inches

Shipping Weight: 4.2 pounds

Average Customer Review: 4.0 out of 5 stars 37 customer reviews

Best Sellers Rank: #240,696 in Books (See Top 100 in Books) #142 in [Books > Engineering & Transportation > Engineering > Mechanical > Machinery](#) #422 in [Books > Textbooks > Engineering > Mechanical Engineering](#) #1309 in [Books > Engineering & Transportation > Engineering > Civil & Environmental](#)

## Customer Reviews

This book presents the concepts, procedures, data, and decision-analysis techniques readers will need to design safe, efficient, and workable machine elements...and to effectively integrate these elements into total systems. --This text refers to an alternate Hardcover edition.

Machine Elements in Mechanical Design provides a practical approach to designing machine elements in the context of complete mechanical designs. Extensive updating for the fourth edition includes new photographs of commercially available machine components, new design data for some elements, new or revised standards, new end-of-chapter references, and listings of Internet sites. Strengths of this text include: The three-part structure that was introduced in the third edition has been maintained. Part I focuses on reviewing and upgrading readers' understanding of design

philosophies, the principles of strength of materials, the design properties of materials, combined stresses, design for different types of loading, and the analysis and design of columns. Part II is organized around the design of a complete power transmission system, emphasizing the interrelationships among machine elements in addition to their unique characteristics. Included are belt drives, chain drives, gears, shafts, keys, couplings, seals, rolling contact bearings, and completion of the design of a power transmission. Part III presents methods of analysis and design of plain surface bearings, linear motion elements, fasteners, springs, machine frames, bolted connections, welded joints, electric motors, controls, clutches, and brakes. A CD-ROM for the mechanical design software MDESIGN is included with each book. This powerful software enables users to quickly complete the design of many of the machine elements discussed in the book. Extensive lists of Internet sites and references at the end of each chapter assist readers in accessing additional information about the concepts presented in this book and in finding data for commercially available products that can be applied to designs. Computer spreadsheets facilitate the design and analysis of many machine elements. The Big Picture, You Are the Designer, and Objectives features help readers draw on their own experiences and appreciate what competencies they will acquire from the study of each chapter.

Used the 5th edition for my Engineering course and found it to be full of useful information. Looking on , I found this previous edition for a lot cheaper. After reviewing the contents online, I decided to purchase for my personal reference. The 4th edition of this textbook has all the same information as the 5th, just some different analytical problems at the end of the chapters. I highly suggest this for anyone that wants the information that is in the 5th edition without spending a lot more money.

Cover not completely attached to book blocked (front is not attached at all.) Severly damaged. Pages creased. Took pictures to document condition upon receipt.

I got this book for my mechatronics course dealing with how to design machines. The first few chapters were pretty darn good, starting with the basics and getting you to know some of the "trade secrets." started talking about the different types of stock you can buy, the different alloys and what they do, and then got right into the physics of it - will it hold up. The book cost me about \$50 dollars less than from the bookstore and was in near-perfect condition. I received it within a matter of days. All and all a really great deal for me.

it is a good best.

I really have enjoyed using this book. It's a great overview of all elements in a mechanical design and the calculations necessary to make sure those elements do not fail under load. The book is written in a way that makes it easy to use. Just the right blend of explanation, calculation, and Graphs are used to provide the user with an excellent resource for many years of engineering work. I love this book and find it very valuable to have in collection of mechanical engineering books.

This is a great textbook. Very good reference with some great tables and information in the appendix. If you need this book for a class, get it and keep it for future use.

This seems to be a great book so far. The reading isn't too dry and the pictures/drawings in the book are very helpful as well as the thoroughly explained example problems.

I ordered a new book and this one came with the spine or the pages ripped from the hard cover. Paid 120 for a book that looks like it was carried around in a back pack by a 5 year old all year. Heres what to take from this review, Spend a couple of extra bucks and buy it brand new from another retailer

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