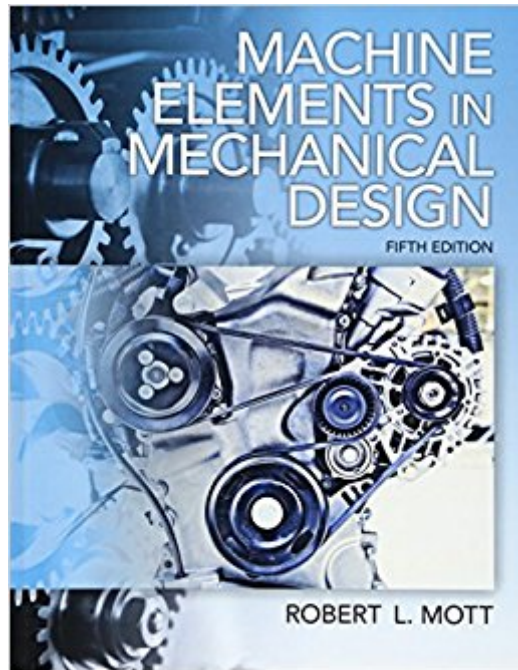




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# **Machine Elements In Mechanical Design (5th Edition)**



## Synopsis

This fully updated text provides the concepts, procedures, data, and analysis techniques needed to design and integrate machine elements into mechanical devices and systems. Focused on practical, safe, and efficient design, **MACHINE ELEMENTS IN MECHANICAL DESIGN**, 5/e emphasizes proven approaches and the use of readily available materials. Readers learn an integrated approach that considers the entire system while designing each element. The first six chapters guide students through the transition to design and expand on their understanding of designing for different loads. Next, the text thoroughly covers machine elements involved in power transmission equipment, from drives to rolling contact bearings. Finally, it covers many additional machine elements, including springs, electric motors, clutches, brakes, linear motion devices, and fasteners, plus issues associated with structural design, connections, and welding. Wherever practical, design equations, data, and procedures are specified. Problems offer realistic practice opportunities; throughout, the authors demonstrate the use of spreadsheets and included software to simplify complex procedures. Updated web links and references promote further exploration.

## Book Information

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## Customer Reviews

""Prof. Robert L. Mott, "P.E.Professor EmeritusThe University of Dayton" Teaching Interests: Design of Machine ElementsFluid Mechanics Mechanical Engineering DesignStrength of MaterialsStress AnalysisSystems Design Education: B.S. Mechanical Engineering, General Motors Institute, 1963M.S. Mechanical Engineering, Purdue University, 1965 Industrial Experience: General Motors Corporation, Frigidaire Division, Research Engineer University of Dayton Research Institute,

Engineer, Structural Mechanics Section Consulting in mechanical design and accident analysis  
Professional Interests: American Society of Mechanical Engineers (ASME) Past Chair,  
Manufacturing Education & Research Community Society of Manufacturing Engineers (SME)  
American Society for Engineering Education (ASEE) Engineering Technology Council Engineering  
Technology Division Registered Professional Engineer National Center for Manufacturing  
Education, Dayton, Ohio Recent Books Published: APPLIED STRENGTH OF MATERIALS, 5th  
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Publishing Co., 2004 Honors & Awards: ASEE Fellow Member, 2007 James H. McGraw Award for  
Outstanding Service in Engineering Technology Education, ASEE, 2004 Archie Higdon  
Distinguished Mechanics Educator Awards, ASEE, 2001 Frederick J. Berger Award for Excellence  
in Engineering Technology Education, ASEE, 1994 Outstanding Engineer and Scientist Award,  
Dayton, Ohio, 1992 Faculty Award in Teaching, University of Dayton, 1981 Epsilon Delta Tau  
Outstanding Achievement Award, 1972 Recipient of SAE Teetor Educational Award 1968 Pi Tau  
Sigma National Mechanical Engineering Honorary Honorary Member Tau Alpha Pi Honor Society

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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