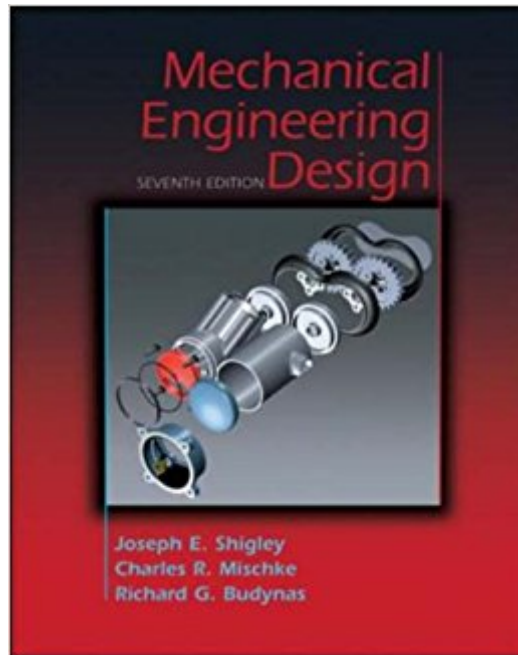




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Mechanical Engineering Design (International Edition)



Synopsis

The seventh edition of "Mechanical Engineering Design" marks a return to the basic approaches that have made this book the standard in machine design for over 40 years. At the same time, the textbook has been significantly updated and modernized for today's engineering students and professional engineers. Working from extensive market research and reviews of the 6/e, the new 7/e features reduced coverage of uncertainty and statistical methods. Statistics is now treated (in chapter 2) as one of several methods available to design engineers, and statistical applications are no longer integrated throughout the text, examples and problem sets. Other major changes include updated coverage of the design process, streamlined coverage of statistics, a more practical overview of materials and materials selection (moved to chapter 3), revised coverage of failure and fatigue, and review of basic strength of materials topics to make a clearer link with prerequisite courses. Overall coverage of basic concepts has been made more clear and concise, with some advanced topics deleted, so that readers can easily navigate key topics. Problem sets have been improved, with new problems added to help students progressively work through them. The book has an Online Learning Center with several powerful components: MATLAB for Machine Design (featuring highly visual MATLAB simulations and accompanying source code); the "FEPC" finite element program, with accompanying Finite Element Primer and FEM Tutorials; interactive FE Exam questions for Machine Design; and Machine Design Tutorials for study of key concepts from Parts I and II of the text. Complete Problem Solutions and PowerPoint slides of book illustrations are available for instructors, under password protection. A printed Instructor's Solutions Manual is also available, with detailed solutions to all chapter problems.

Book Information

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Customer Reviews

Joseph Shigley (deceased), who taught at the University of Michigan, passed away in 1994.

Charles Mischke (Ames, IA) is a Professor of Mechanical Engineering at Iowa State University.

I also have the machine design textbook by Juvinall. That one and this seem to be the two ubiquitous machine design textbooks out there. They are both quite good, but there are some subjects that are either not covered, or not covered in any real depth, by one or the other. This one for instance has the best description of the operation of involute gearing that I've ever seen. Had I read that, it likely may have saved me years of confusion on just how it works. This book also contains some very good material property data that I find useful as an engineer. Really, I wouldn't be willing to part with either of them.

Very helpful book. Easy to sort through and good equations. My professor was forced to teach from Norton's Machine Design book, but preferred Shigley and often referenced it in class. Purchasing the book after graduation, I definitely see why.

This is a good book that goes into a lot of detail on specific problems. It was helpful in studying for and passing the P.E. test. I use this book occasionally at work, and enjoy reading it. It teaches solutions to high-level mechanical engineering problems. I recommend it for a mechanical engineer who is planning to take the P.E. exam, and enjoys mechanical engineering in general.

It is right in front of me

Good

This is a good practical reference book for machine designers. Although some examples could be clearer when it used with another text, Juvinall for example, the mechanical design topic is pretty well covered.

let me the time to read the book. In any case my first feeling is there are too many problems solved with anglo-american units . MKS are easier to use

Received in excellent condition, excellent reference for designers, great textbook for students as well. Highly recommend this book for all mechanical engineers and students pursuing mechanical engineering. I will definitely buy from this seller.

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