



# Design of Machine Elements (7th Edition)

By Merhyle Franklin Spotts, Terry E. Shoup

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Appropriate for one or two term introductory Machine Design course in Mechanical Engineering Departments, or Mechanical Engineering Technology. Classic, comprehensive survey of machine elements and analytical design methods. Gives the tools and techniques necessary to facilitate design calculations for the most frequently encountered mechanical elements.

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## **Editorial Review**

### **From the Publisher**

This volume focuses on the design calculations for universal mechanical elements.

### **From the Back Cover**

Classic, comprehensive survey of machine elements and analytical design methods. It provides the tools and techniques necessary to facilitate design calculations for the most frequently encountered mechanical elements. It uses worked-out numerical examples to illustrate principles that apply to the entire mechanical design field. It also provides most mathematical derivations, and uses simple, unified notation throughout.

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We are pleased to publish this eighth edition of a text that has become a classic among the machine design community. This new edition contains a number of important improvements over the previous edition.

The example problems have been reformatted using a structured approach. This addition should make the logic of the example problems much easier to follow, and the authors recommend that the student of machine design adopt this structured approach in their work.

Most of the spreadsheet modules found in the previous edition have been upgraded and improved. In many cases the use of "drop-down menus" allows the user to switch between unit systems without the need to switch to a different module. Additionally, the spreadsheet modules now include command buttons to allow the user to view additional information of importance to their application. In one of the spreadsheets, the user can produce a scaled plot of the Mohr's Circle for a given state of two-dimensional stress. Some completely new spreadsheet modules have been added to allow a greater range of problems to be solved.

Perhaps one of the most important new features of this edition is the inclusion of a chapter on design with plastic materials. This chapter, written by L. E. Hornberger, a world-class leader in plastics design and recycling, provides an excellent overview of how plastic materials are having a strong positive influence on the design of machine elements. This new edition represents over 80 years of experience of its three authors in industry and in the classroom. As with any "work in process," we continue to welcome your helpful suggestions for improvement of this text.

As with any project of this magnitude, there are many people to thank for their suggestions, contributions, and helpful ideas. In particular we thank William L. Cleghorn, University of Toronto; Harvey Hoy, University of Wisconsin; Richard A. Hultin, Rochester Institute of Technology; Ronald L. Priebe, University of North Carolina Charlotte; and Tom Overman, Santa Clara University.

T. E. SHOUP  
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