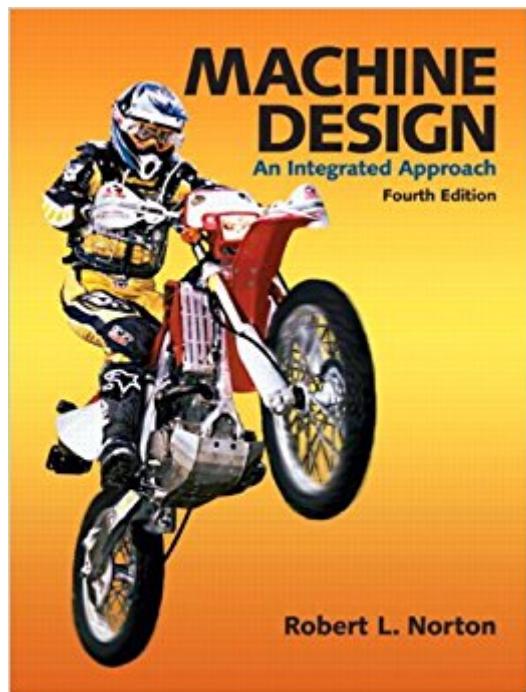


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Machine Design (4th Edition)



Synopsis

For courses in Machine Design. Machine Design, 4/e, presents the subject matter in an up-to-date and thorough manner with a strong design emphasis. This textbook emphasizes both failure theory and analysis as well as emphasizing the synthesis and design aspects of machine elements. The book points out the commonality of the analytical approaches needed to design a wide variety of elements and emphasizes the use of computer-aided engineering as an approach to the design and analysis of these classes of problems.Â Â

Book Information

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Customer Reviews

âœThe bookâ™s pedagogy is the best and most unique of the available mechanical engineering design texts. In each of the chapters covering a machine design component (Part II sections), there is a detailed discussion on the relevant failure modes (static, surface, and/or fatigue). The material is truly integrated. This integrated approach makes the text very helpful for students currently in the course, undertaking student design projects, and/or professional engineers.â•â" Ali Gordon, University of Central Florida âœThe text provides a wide amount of information for each of the machine design components. For example, in the section on gears, fatigue, yielding, and surface failure are all covered.â•â" Ali Gordon, University of Central Florida âœMany of the formulations, tables, and figures throughout the book are in close resemblance to what engineers will encounter outside of the classroom.â•â" Ali Gordon, University of Central Florida

Robert L. Norton earned undergraduate degrees in both mechanical engineering and industrial

technology at Northeastern University and an MS in engineering design at Tufts University. He is a registered professional engineer in Massachusetts. He has extensive industrial experience in engineering design and manufacturing and many yearsâ™ experience teaching mechanical engineering, engineering design, computer science, and related subjects at Northeastern University, Tufts University, and Worcester Polytechnic Institute. Â At Polaroid Corporation for 10 years, he designed cameras, related mechanisms, and high-speed automated machinery. He spent three years at Jet Spray Cooler Inc., designing food-handling machinery and products. For five years he helped develop artificial-heart and noninvasive assisted-circulation (counterpulsation) devices at the Tufts New England Medical Center and Boston City Hospital. Since leaving industry to join academia, he has continued as an independent consultant on engineering projects ranging from disposable medical products to high-speed production machinery. He holds 13 U.S. patents. Â Norton has been on the faculty of Worcester Polytechnic Institute since 1981 and is currently the Milton P. Higgins II Distinguished Professor of Mechanical Engineering, Russell P. Searle Distinguished Instructor, Head of the Design Group in that department, and the Director of the Gillette Project Center at WPI. He teaches undergraduate and graduate courses in mechanical engineering with emphasis on design, kinematics, vibrations, and dynamics of machinery. Â He is the author of numerous technical papers and journal articles covering kinematics, dynamics of machinery, cam design and manufacturing, computers in education, and engineering education and of the texts *Design of Machinery*, *Machine Design: An Integrated Approach* and the *Cam Design and Manufacturing Handbook*. He is a Fellow of the American Society of Mechanical Engineers and a member of the Society of Automotive Engineers. But, since his main interest is in teaching, he is most proud of the fact that, in 2007, he was chosen as U. S. Professor of the Year for the State of Massachusetts by the Council for the Advancement and Support of Education (CASE) and the Carnegie Foundation for the Advancement of Teaching, who jointly present the only national awards for teaching excellence given in the United States of America.

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classes. More importantly, I needed it for my senior design project. Excellent book!

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I am using this book for a mechanical engineering machine design course. I usually resell my books after I take the course, but this one I might keep. It seems to have a lot of useful information, and the chapters are mapped out very well. It explains concepts very well, derives several equations, and makes great use of tables and graphs. My only complaint would be on the format of some of the practice problems, which build on each other over several chapters. This is only some of the problems.

If you're assigned homework out of this book, you'll be doing a lot of referencing. It will tell you, 'see problem 4-27' and then when you read 4-27 it will say 'refer to figure 3-2'. The book sometimes refers you to the wrong figure. The chapters are very long as well.

good book.

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