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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.

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Theory of Machines

Robert L. Norton Design of Machinery McGraw-Hill, 5th ed., ISBN 978-0-07-742171-7 . Fifth Edition DESIGN OF MACHINERY An Introduction to the Synthesis and Analysis of Mechanisms and Machines ROBERT L. NORTON . Author: FISCHER Created Date:

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As head of the Design Group in the Mechanical Engineering Department at WPI, Norton teaches undergraduate and graduate courses that focus on design, kinematics, vibrations, and dynamics of machinery, advises undergraduate design projects as head of the Gillette Project Center, supervises graduate research, and is active as a consultant to industry on a wide range of engineering projects, which have included disposable medical products and high-speed production machinery.

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Design of Machinery: An Introduction to the Synthesis and Analysis of Mechanisms and Machines. by Robert L Norton. Starting at \$18.38

For courses in Machine Design. An integrated, case-based approach to machine design Machine Design: An Integrated Approach, 6th Edition presents machine design in an up-to-date and thorough manner with an emphasis on design. Author Robert Norton draws on his 50-plus years of experience in mechanical engineering design, both in industry and as a consultant, as well as 40 of those years as a university instructor in mechanical engineering design. Written at a level aimed at junior-senior mechanical engineering students, the textbook emphasizes failure theory and analysis as well as the synthesis and design aspects of machine elements. Independent of any particular computer program, 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. Also available with Mastering Engineering Mastering(tm) is the teaching and learning platform that empowers you to reach every student. By combining trusted author content with digital tools developed to engage students and emulate the office-hour experience, Mastering personalizes learning and often improves results for each student. Tutorial exercises and author-created tutorial videos walk students through how to solve a problem, consistent with the author's voice and approach from the book. Note: You are purchasing a standalone product; Mastering Engineering does not come packaged with this content. Students, if interested in purchasing this title with Mastering Engineering, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and Mastering Engineering, search for: 0136606539/9780136606536 Machine Design: An Integrated Approach Plus MasteringEngineering with Pearson eText -- Access Card Package 6/e Package consists of: 0135166802/9780135166802 MasteringEngineering with Pearson eText -- Access Card -- for Machine Design: An Integrated Approach, 6/e 0135184231 / 9780135184233 Machine Design: An Integrated Approach, 6/e

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CD-ROM contains: TKSolver -- Mathcad Engine -- Software files listed in appendix I.

This textbook presents an integrated approach to the design of machine elements by tying together the usual set of machine-element topics with a series of case studies that demonstrate the interrelationships between force, stress and failure analysis in real-world design. While emphasizing the design and synthesis aspects of the subject, the book nevertheless presents a thorough and complete treatment of the requisite engineering mechanics topics and provides a good balance between synthesis and analysis. The machine-design subject matter is presented in an up-to-date manner using computer-aided design techniques. Most of the 75 examples and 25 case-study analyses are solved with an equation solver and over 200 computer files (for both Macintosh and Windows/DOS computers) are provided on the attached CD-ROM.

Beginning at an introductory level and progressing to more advanced topics, this handbook provides all the information needed to properly design, model, analyze, specify, and manufacture cam-follower systems. It is accompanied by a 90-day trial demonstration copy of the professional version of Dynacam.

This book covers the kinematics and dynamics of machinery topics. It emphasizes the synthesis and design aspects and the use of computer-aided engineering. A sincere attempt has been made to convey the art of the design process to students in order to prepare them to cope with real engineering problems in practice. This book provides up-to-date methods and techniques for analysis and synthesis that take full advantage of the graphics microcomputer by emphasizing design as well as analysis. In addition, it details a more complete, modern, and thorough treatment of cam design than existing texts in print on the subject. The author's website at www.designofmachinery.com has updates, the author's computer programs and the author's PowerPoint lectures exclusively for professors who adopt the book. Features Student-friendly computer programs written for the design and analysis of mechanisms and machines. Downloadable computer programs from website Unstructured, realistic design problems and solutions

Robert L. Norton's sixth edition of DESIGN OF MACHINERY continues the tradition of this best-selling book through its balanced coverage of analysis and design and outstanding use of realistic engineering examples. Through its reader-friendly style of writing, clear exposition of complex topics, and emphasis on synthesis and design, the text succeeds in conveying the art of design as well as the use of modern tools needed for analysis of the kinematics and dynamics of machinery. Topics are explained verbally and visually, often through the use of software, to enhance student understanding. Accompanying the book is an updated online learning center.

CD-ROM contains: Working Model 2D Homework Edition 4.1 -- Working Model simulations -- Author-written programs (including FOURBAR and DYNACAM) -- Scripted Matlab analysis and simulations files -- FE Exam Review for Kinematics and Applied Dynamics.

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