

# Design Of Machinery Robert Norton 5th

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*Textbook Reviews*

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

robert norton s design of machinery 3 e continues the tradition of this bestselling book by emphasizing the design aspects of mechanisms and providing numerous industry examples and illustrations for readers norton provides a solid conceptual foundation for the kinematics and dynamics of machinery presented in the context of what a design engineer needs to work with the new 3 e has revised and expanded chapter problem set 231 new problems have been added 88 project assignments are also included to give readers an in depth look at mechanism design and analysis procedures in a realistic format coverage of compliant mechanisms and mems has been added in chapter 2 a section entitled some useful mechanisms is now in chapter 3 treatment of cams in chapters 8 has been condensed and modernized information on transmissions and engine dynamics has been enhanced and expanded as well norton s own student version programs an extensive group of working model simulations by sid wang north carolina a t university additional working model examples and the msc working model 2 d program itself demonstration version a new book website includes additional instructor and student resources detailed solutions to all chapter problems and project assignments are available to instructors on the website under password protection

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 [designofmachinery.com](http://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

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version programs an extensive group of working model simulations by sid wang north carolina a t university additional working model examples and the msc working model 2 d program itself demonstration version a new book website includes additional instructor and student resources detailed solutions to all chapter problems and project assignments are available to instructors on the website under password protection

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 tksolver mathcad engine software files listed in appendix i

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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

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