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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 it has been significantly updated and modernized for today's engineering students and professional engineers working from extensive market research and reviews of the 6th edition the new 7th edition 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

the second edition of shigley uicker maintains the tradition of being very complete thorough and somewhat theoretical the principal changes include an expansion and updating of the

dynamics material expansion of the chapter on gears an expansion of the material on mechanisms a new introductory chapter intended for the kinematics and dynamics course in mechanical engineering departments

this book covers a wide range of topics in polymer rheology these are basic principles parameters systems and applied mathematical models used in the rheological studies melt flow analysis of different non newtonian fluids in laminar flow transition between laminar and turbulent flow and modified reynolds number the effects of different physical and molecular parameters on purely viscous rheological response of polymer melts and solutions principles of rheometry and different types of viscometers and on line rheometers the static and dynamic viscoelastic response of the polymer melts and solutions viscoelasticity mechanical models and boltzmann superposition principle molecular structure viscoelasticity relationship and linear and non linear viscoelasticity effects of different processes materials parameters like temperature fillers micro and nano fillers and molecular parameters like mw mwd the role of rheology in polymer processing in different equipment modified power law constants and two range power law constants for a large number of polymers rheology software program in java comparison of different polymer rheological models using the rheology software and answers to the problems the book will be very useful to both undergraduate and postgraduate students as well as teachers and practicing rheologists

mechanical engineering design third edition strikes a balance between theory and application and prepares students for more advanced study or professional practice updated throughout it outlines basic concepts and provides the necessary theory to gain insight into mechanics with numerical methods in design divided into three sections the text presents background topics addresses failure prevention across a variety of machine elements and covers the design of machine components as well as entire machines optional sections treating special and advanced topics are also included features places a strong emphasis on the fundamentals of mechanics of materials as they relate to the study of mechanical design furnishes material selection charts and tables as an aid for specific uses includes numerous practical case studies of various components and machines covers applied finite element analysis in design offering this useful tool for computer oriented examples addresses the abet design criteria in a systematic manner presents independent chapters that can be studied in any order introduces optional matlab solutions tied to the book and student learning resources mechanical engineering design third

edition allows students to gain a grasp of the fundamentals of machine design and the ability to apply these fundamentals to various new engineering problems

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