



# **Mechanical Design: An Integrated Approach (McGraw-Hill Series in Mechanical Engineering)**

*Ansel Ugural*

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Ugural's *Mechanical Design: An Integrated Approach* provides a comprehensive, unified approach to the subject of machine element design for Mechanical Engineering students and practicing engineers. The author's expertise in engineering mechanics is demonstrated in Part I (Fundamentals), where readers are given an exceptionally strong treatment of the design process, stress & strain, deflection & stiffness, energy methods, and failure/fatigue criteria. Advanced topics in mechanics (marked with an asterisk in the Table of Contents) are provided for optional use.

The first 8 chapters provide the conceptual basis for Part II (Applications), where the major classes of machine components are covered. Optional coverage of finite element analysis is included, in the final chapter of the text, with selected examples and cases showing FEA applications in mechanical design.

In addition to numerous worked-out examples and chapter problems, detailed Case Studies are included to show the intricacies of real design work, and the integration of engineering mechanics concepts with actual design procedures. The author provides a brief but comprehensive listing of derivations for users to avoid the "cookbook" approach many books take. Numerous illustrations provide a visual interpretation of the equations used, making the text appropriate for diverse learning styles. The approach is designed to allow for use of calculators and computers throughout, and to show the ways computer analysis can be used to model problems and explore "what if?" design analysis scenarios.

An Online Learning Center website provides a wealth of resources for instructors, students and other readers; and a printed Instructor Solutions Manual is also available.

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