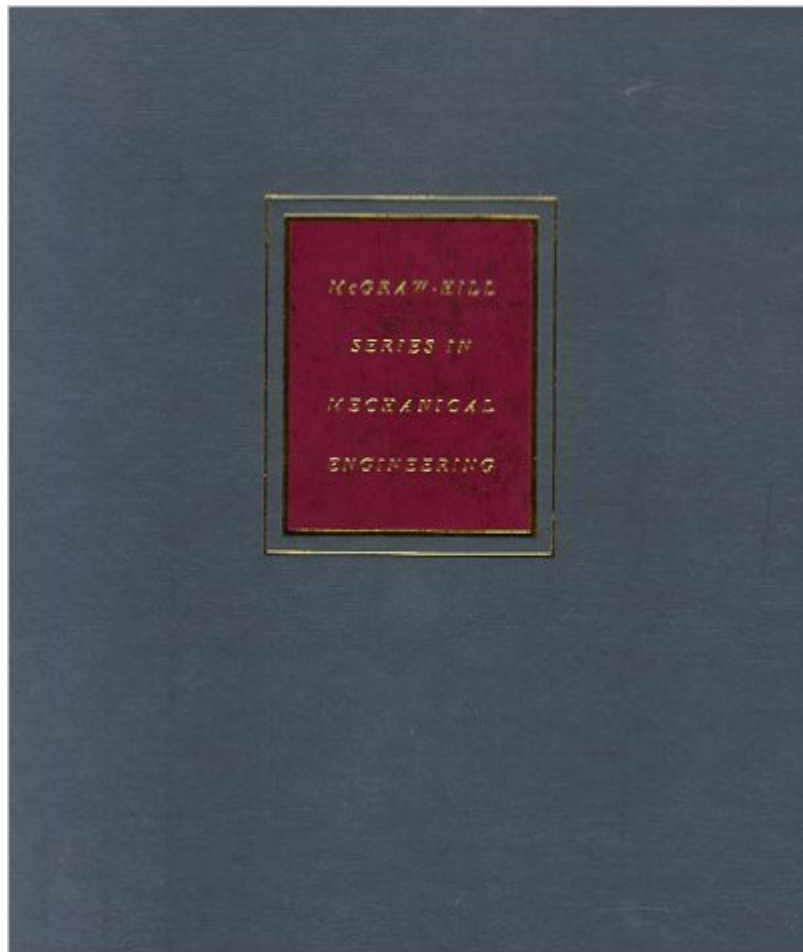


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# Mechanical Engineering Design (McGraw-Hill Mechanical Engineering)



## Synopsis

The text is intended for undergraduate courses in mechanical engineering design. It teaches students to apply the background they have developed in mathematics, physics, the thermal-fluid sciences, and computers to questions unique to engineering design. This edition features emphasis on reader involvement in programming; a unique arrangement of the material on gearing to provide maximum flexibility in scheduling topics; complete revisions of almost every chapter; completely new home problems, and an optional reliability method of design, both of which are used throughout the book; and additional emphasis on designing to achieve quality-control objectives.

## Book Information

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## Customer Reviews

One of the Best Machining Reference Books you will ever have. I am 56 and have been in the engineering profession for 32 years now. When I took this course in machine design at Vanderbilt in the spring of 1981 (it was Shigley's 3rd edition textbook) it was very fast paced by lecture and all theoretical. It would have been much better had the professor showed us examples of fasteners, types of metals, pinions, bull gears, drive shafts, planetary gear systems, fatigue damage, corrosion damage, bearing types etc. but this wasn't the case. No, it was all theoretical and we had lots of problems to solve in an effort to absorb some of the theories and applications of machine design. We raced through the chapters and I am convinced the pace was too fast to really retain much. Looking back it was like running a race and not much went into the long-term memory except Dr.

Shigley laid it all out in a wonderful format. If I was teaching this course I would have a couple of tables of parts, different types of materials and examples of corrosion, spalling and fatigue that students could review at their leisure after class to get acquainted with the conditions, configurations and concepts. Using only the textbook as your guide is limiting; it is too abstract. There is a better way to understand the whole gamut of mechanical concepts and go beyond the abstract notions and theories. Seeing examples first hand reinforces the actual concepts into the mind so much better. Nothing beats getting the hands to touch, grasp and see first-hand actual examples of what is described in the machining design textbook.

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