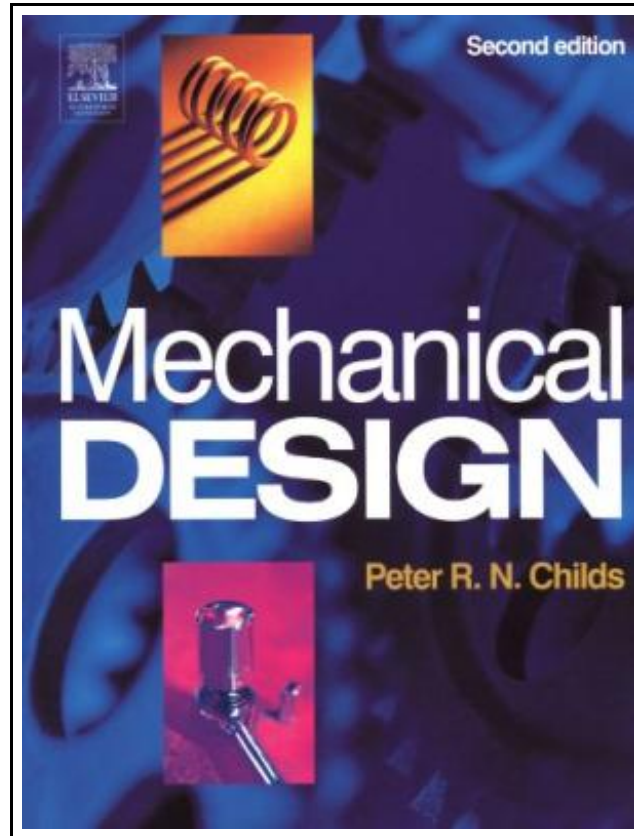


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Reviews

Complete guideline for publication fans. I am quite late in start reading this one, but better then never. It is extremely difficult to leave it before concluding, once you begin to read the book.
(Llewellyn Terry)

MECHANICAL DESIGN (PAPERBACK)



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ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2004. Paperback. Book Condition: New. 2nd Revised edition. 244 x 190 mm. Language: English . Brand New Book. This book introduces the subject of total design, and introduces the design and selection of various common mechanical engineering components and machine elements. These provide building blocks , with which the engineer can practice his or her art. The approach adopted for defining design follows that developed by the SEED (Sharing Experience in Engineering Design) programme where design is viewed as the total activity necessary to provide a product or process to meet a market need. Within this framework the book concentrates on developing detailed mechanical design skills in the areas of bearings, shafts, gears, seals, belt and chain drives, clutches and brakes, springs and fasteners. Where standard components are available from manufacturers, the steps necessary for their specification and selection are developed. The framework used within the text has been to provide descriptive and illustrative information to introduce principles and individual components and to expose the reader to the detailed methods and calculations necessary to specify and design or select a component. To provide the reader with sufficient information to develop the necessary skills to repeat calculations and selection processes, detailed examples and worked solutions are supplied throughout the text. This book is principally a Year/Level 1 and 2 undergraduate text. Pre-requisite skills include some year one undergraduate mathematics, fluid mechanics and heat transfer, principles of materials, statics and dynamics. However, as the subjects are introduced in a descriptive and illustrative format and as full worked solutions are provided, it is possible for readers without this formal level of education to benefit from this book. The text is specifically aimed at automotive and mechanical engineering degree programmes and would be of value for modules in design,...



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