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ROBERT C JUVINALL Print book: English. 2020  
[S.l.] : JOHN WILEY 2. Fundamentals of

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(1991). A Review of: "Fundamentals of Machine Component Design" Second Edition Robert C. Juvinall & Kurt M. Marshek, 1991 New York, John Wiley ISBN 0 471 529 893 £18.95.

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European Journal of Engineering Education:  
Vol. 16, No. 3, pp. 283-288.

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The design process. •A design is created after analysis, full understanding of requirements and constraints and synthesis

- Two individuals may not come with the same solution to the same problem. Example: Connect two straight pipes ND 4" to avoid leaking of the gas and to permit easy maintenance of the segment.

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Fundamentals of Machine Component Design presents a thorough introduction to the concepts and methods essential to mechanical engineering design, analysis, and application. In-depth coverage of major topics, including free body diagrams, force

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presentation reinforces central ideas with multiple case studies, in-class exercises, homework problems, computer software data sets, and access to supplemental internet resources, while appendices provide extensive reference material on processing methods, joinability, failure modes, and material properties to aid student comprehension and encourage self-study.

Juvinall and Marshek's Fundamentals of Machine Component Design continues to focus on the fundamentals of component design -- free body diagrams, force flow concepts,

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failure theories, and fatigue design, with applications to fasteners, springs, bearings, gears, clutches, and brakes. Problem-solving skills are developed by the implementation of a proven methodology which provides a structure for accurately formulating problems and clearly presenting solutions. The seventh edition includes additional coverage of composites, the material selection process, and wear/wear theory, along with new and updated examples and homework problems.

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**Market\_Desc:** Mechanical Engineers Special Features: • Covers all the basics and introduces a methodology for solving machine component problems • Covers a wide variety of machine components, from threaded fasteners to springs to shafts and gears to clutches and brakes • Also provides an illuminating case study involving a complete machine that spotlights component interrelationships

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design techniques, includes case studies that present different aspects of the same design or analysis problem, and links together a variety of topics in successive chapters. SI units are used exclusively in examples and problems, while some selected tables also show U.S. customary (USCS) units. This book also presumes knowledge of the mechanics of materials and material properties. New in the Second Edition: Presents a study of two entire real-life machines Includes Finite Element Analysis coverage supported by examples and case studies Provides MATLAB solutions of many problem samples and case

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studies included on the book's website Offers access to additional information on selected topics that includes website addresses and open-ended web-based problems Class-tested and divided into three sections, this comprehensive book first focuses on the fundamentals and covers the basics of loading, stress, strain, materials, deflection, stiffness, and stability. This includes basic concepts in design and analysis, as well as definitions related to properties of engineering materials. Also discussed are detailed equilibrium and energy methods of analysis for determining stresses

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and deformations in variously loaded members. The second section deals with fracture mechanics, failure criteria, fatigue phenomena, and surface damage of components. The final section is dedicated to machine component design, briefly covering entire machines. The fundamentals are applied to specific elements such as shafts, bearings, gears, belts, chains, clutches, brakes, and springs.

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Design covers a broad spectrum of critical machine design topics and helps the reader understand the fundamentals and apply the technologies necessary for successful mechanical design and execution. The inclusion of examples and instructive problems present the reader with a teachable computer-oriented text. Useful analytical techniques provide the practitioner and student with powerful tools for the design of kinematic chains and machine components. Kinematic Chains and Machine Components Design serves as a on-volume reference for engineers and students in mechanical

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engineering with applications for all engineers working in the fields of machine design and robotics. The book contains the fundamental laws and theories of science basic to mechanical engineering including mechanisms, robots and machine components to provide the reader with a thorough understanding of mechanical design. Combines theories of kinematics and behavior of mechanisms with the practical design of robots, machine parts, and machine systems into one comprehensive mechanical design book Offers the method of contour equations for the kinematic analysis of mechanicsl systems



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