

Couplings And Joints Design Selection Application Mechanical Engineering

Handbook of Mechanical Engineering Calculations,
Second Edition
Journal of Engineering for
Industry
Couplings and Joints
Applied Mechanics
Reviews
Machine Design Data Book, 2e
An Introduction
to the Design and Behavior of Bolted Joints, Revised
and Expanded
Structural Adhesive Joints in
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Gasket: Design, Selection, and
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Analysis and Design of Machine
Elements
Machine Design
Universal Joints and
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Handbook of Adhesives and Surface
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Plastics Joining
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Mechanical Devices Sourcebook, Fourth Edition
Introduction to the Design and Behavior of Bolted Joints, Fourth Edition
Analysis and Design of Machine Elements

Handbook of Mechanical Engineering Calculations, Second Edition

Geometric Dimensioning and Tolerancing: Workbook and Answerbook offers a host of effective examples that utilize the concepts discussed in the reference/text--covering all facets of geometric dimensioning and tolerancing, measurement, inspection, and gauging applicable in any on-the-job situation. The Workbook and Answerbook is a companion to Geometric Dimensioning and Tolerancing: Applications for use in Design, Manufacturing, and Inspection (ISBN: 0-8247-9309-9) and follows the reference text chapter by chapter.

Journal of Engineering for Industry

Handbook of Adhesives and Surface Preparation provides a thoroughly practical survey of all aspects of adhesives technology from selection and surface preparation to industrial applications and health and environmental factors. The resulting handbook is a hard-working reference for a wide range of engineers and technicians working in the adhesives industry and a variety of industry sectors that make considerable use of adhesives. Particular attention is given to adhesives applications in the automotive, aerospace,

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medical, dental and electronics sectors. A handbook that truly focuses on the applied aspects of adhesives selection and applications: this is a book that won't gather dust on the shelf Provides practical techniques for rendering materials surfaces adherable Sector-based studies explore the specific issues for automotive and aerospace, medical, dental and electronics

Couplings and Joints

Analyze and Solve Real-World Machine Design Problems Using SI Units Mechanical Design of Machine Components, Second Edition: SI Version strikes a balance between method and theory, and fills a void in the world of design. Relevant to mechanical and related engineering curricula, the book is useful in college classes, and also serves as a reference for practicing engineers. This book combines the needed engineering mechanics concepts, analysis of various machine elements, design procedures, and the application of numerical and computational tools. It demonstrates the means by which loads are resisted in mechanical components, solves all examples and problems within the book using SI units, and helps readers gain valuable insight into the mechanics and design methods of machine components. The author presents structured, worked examples and problem sets that showcase analysis and 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,

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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 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 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.

Applied Mechanics Reviews

The intention of this book is that it should contain everything an engineer needs to know to be able to design and produce adhesively bonded joints which

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are required to carry significant loads. The advantages and disadvantages of bonding are given, together with a sufficient understanding of the necessary mechanics and chemistry to enable the designer to make a sound engineering judgement in any particular case. The stresses in joints are discussed extensively so that the engineer can get sufficient philosophy or feel for them, or can delve more deeply into the mathematics to obtain quantitative solutions even with elasto plastic behaviour. A critical description is given of standard methods of testing adhesives, both destructively and non-destructively. The essential chemistry of adhesives and the importance of surface preparation are described and guidance is given for adhesive selection by means of check lists. For many applications, there will not be a unique adhesive which alone is suitable, and factors such as cost, convenience, production considerations or familiarity may be decisive. A list of applications is given as examples. The authors wish to increase the confidence of engineers using adhesive bonding in load-bearing applications by the information and experience presented. With increasing experience of adhesives engineering, design will become more elegant as well as more fitted to its products.

Machine Design Data Book, 2e

An Introduction to the Design and Behavior of Bolted Joints, Revised and Expanded

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Don't Blow A Gasket. . . Pick up Daniel E. Czernik's Gasket Handbook instead and arm yourself with all the know-how you need to design dependable, environment-friendly, long-lasting, high-performance gaskets. It's the only guide to cover design, selection, performance, efficiency, reliability, and testing of every type of "static" seal gasket: chemical, o-ring, metallic, and non-metallic. You'll find all the latest ASME codes, the proposed new ASME gasket constants, and in-depth explanations of: initial seal creation; seal maintenance; stress distribution testing; gasket design and environmental conditions; gasket installation; joint and gasket design and selection; sealing enhancements; rubber gaskets; failure mode and effects analysis; o-ring seals; finite element analysis; computers and gaskets; chemical gaskets; and more.

Structural Adhesive Joints in Engineering

Revised extensively, the new edition of this text conforms to the syllabi of all Indian Universities in India. This text strictly focuses on the undergraduate syllabus of Design of Machine Elements I and II , offered over two semesters.

Gasket: Design, Selection, and Testing

Rapid increases in energy consumption and emphasis on environmental protection have posed challenges for the motor industry, as has the design and manufacture of highly efficient, reliable, cost-effective, energy-saving, quiet, precisely controlled,

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and long-lasting electric motors. Suitable for motor designers, engineers, and manufacturers, as well

Analysis and Design of Machine Elements

FLEXIBLE COUPLINGS is a reference book that provides a wealth of information for almost everybody that deals with machinery: from the engineer that designs them, the plant engineer that selects them, & for the maintenance personnel that installs, maintains, & must prevent machinery failures. The book fills a void, as the subject of flexible couplings is only briefly discussed in most engineering handbooks & college textbooks. Flexible couplings represent a major expenditure in parts replacement & maintenance downtime. Coupling failures can be spectacular, always represent a large cost &, unfortunately, COUPLINGS FAILURES HAVE SOMETIMES RESULTED IN LOSS OF LIMBS & LIFE. The major parts of the book are: * Description of major types of couplings, including advantages & disadvantages * Calculations * Machinery vibrations as influenced by couplings * selection of couplings based on need & characteristics * Installation & removal procedures * Maintenance for long service life, & * Failure analysis & prevention. The author is a world-renowned expert, who has extensive experience in coupling development, maintenance, & failure analysis. Order directly from CAROLINE PUBLISHING, P.O. Box 451611, Houston, TX 77245-1611; 713-437-0437.

Machine Design

Universal Joints and Driveshafts

"Second Edition provides new material on coupling ratings, general purpose couplings versus special purpose couplings, retrofitting of lubricated couplings to nonlubricated couplings, torsional damping couplings, torquemeter couplings, and more."

Design of Machine Elements

"Second Edition provides new material on coupling ratings, general purpose couplings versus special purpose couplings, retrofitting of lubricated couplings to nonlubricated couplings, torsional damping couplings, torquemeter couplings, and more."

Paper

Bonded Joints and Repairs to Composite Airframe Structures is a single-source reference on the state-of-the-art in this rapidly growing area. It provides a thorough analysis of both internal and external joints and repairs, as well as discussions on damage tolerance, non-destructive inspection, self-healing repairs, and other essential information not only on the joints and repairs themselves, but critically, on how they differ from bonds and repairs to metallic aircraft. Authors Wang and Duong bring a valuable combination of academic research and industry expertise to the book, drawing on their cutting-edge composite technology experience, including analytic and computational leadership of damage and repair

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planning for the Boeing 787. Intended for graduate students, engineers, and scientists working on the subject in aerospace industry, government agencies, research labs, and academia, the book is an important addition to the limited literature in the field. Offers rare coverage of composite joints and repairs to composite structures, focusing on the state of the art in analysis Combines the academic, government, and industry expertise of the authors, providing research findings in the context of current and future applications Covers internal and external joints and repairs, as well as damage tolerance, non-destructive inspection, and self-healing repairs Ideal for graduate students, engineers, and scientists working in the aerospace industry, government agencies, research labs, and academia

Handbook of Adhesives and Surface Preparation

It all began way back in 1984 when I began my career in the field of dynamometer and engine testing when after years of gut-feeling and study I realized that there is a need for a book on dynamometer and its application to engine testing. As automotive and dynamometer industry is growing worldwide the concern eventually became so great I felt a book devoted to the subject was warranted. The book *Dynamometer-Theory and Application to Engine Testing* is a book dedicated to various dynamometers and how they are applied to engine testing. The book also discusses the essentials of modern test cell and the instrumentation, data acquisition system and

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other accessories that are employed in modern test cell. After having worked in the field of industrial compressors, pumps, material handling equipment, dynamometer field and software industry I decided to write this book which will help the people working in the automotive industry, engine and vehicle testing, people working in the dynamometer and instrumentation industry and electrical motor industry. The book will be of interest to the students of mechanical and automobile engineering. The book will be of great value to the incumbents entering in the automotive and dynamometer fields.

Mechanical Design of Electric Motors

Incorporating Chinese, European, and International standards and units of measurement, this book presents a classic subject in an up-to-date manner with a strong emphasis on failure analysis and prevention-based machine element design. It presents concepts, principles, data, analyses, procedures, and decision-making techniques necessary to design safe, efficient, and workable machine elements. Design-centric and focused, the book will help students develop the ability to conceptualize designs from written requirements and to translate these design concepts into models and detailed manufacturing drawings. Presents a consistent approach to the design of different machine elements from failure analysis through strength analysis and structural design, which facilitates students' understanding, learning, and integration of analysis with design Fundamental

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theoretical topics such as mechanics, friction, wear and lubrication, and fluid mechanics are embedded in each chapter to illustrate design in practice Includes examples, exercises, review questions, design and practice problems, and CAD examples in each self-contained chapter to enhance learning Analysis and Design of Machine Elements is a design-centric textbook for advanced undergraduates majoring in Mechanical Engineering. Advanced students and engineers specializing in product design, vehicle engineering, power machinery, and engineering will also find it a useful reference and practical guide.

Flexible Couplings

Solve any mechanical engineering problem quickly and easily This trusted compendium of calculation methods delivers fast, accurate solutions to the toughest day-to-day mechanical engineering problems. You will find numbered, step-by-step procedures for solving specific problems together with worked-out examples that give numerical results for the calculation. Covers: Power Generation; Plant and Facilities Engineering; Environmental Control; Design Engineering New Edition features methods for automatic and digital control; alternative and renewable energy sources; plastics in engineering design

Intermediate Heat Transfer

Offering a broad-based review of the factors affecting the design, assembly and behaviour of bolted joints

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and their components in all industries, this work details various assembly options as well as specific failure modes and strategies for their avoidance. This edition features material on: the contact stresses between bolt head or nut face and the joint; thread forms, series and classes; the stiffness of raised face flange joints; and more.

Micromachining of Engineering Materials

Offering a broad-based review of the factors affecting the design, assembly and behaviour of bolted joints and their components in all industries, this work details various assembly options as well as specific failure modes and strategies for their avoidance. This edition features material on: the contact stresses between bolt head or nut face and the joint; thread forms, series and classes; the stiffness of raised face flange joints; and more.

Geometric Dimensioning and Tolerancing

The latest ideas in machine analysis and design have led to a major revision of the field's leading handbook. New chapters cover ergonomics, safety, and computer-aided design, with revised information on numerical methods, belt devices, statistics, standards, and codes and regulations. Key features include:
*new material on ergonomics, safety, and computer-aided design; *practical reference data that helps machines designers solve common problems--with a minimum of theory. *current CAS/CAM applications, other machine computational aids, and robotic

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applications in machine design. This definitive machine design handbook for product designers, project engineers, design engineers, and manufacturing engineers covers every aspect of machine construction and operations. Voluminous and heavily illustrated, it discusses standards, codes and regulations; wear; solid materials, seals; flywheels; power screws; threaded fasteners; springs; lubrication; gaskets; coupling; belt drive; gears; shafting; vibration and control; linkage; and corrosion.

Mechanical Engineering Bulletin

Power Transmission

Major progress has been made in the field of driveshafts since the authors presented their first edition of this unique reference work.

Correspondingly, major revisions have been done for second edition of the German Textbook (Springer 2003), which is present here in the English translation. The presentation was adjusted, novel improvements of manufacturing and design are described, and modern aspects of production are incorporated. The design and application of Hooke's joint driveshafts is discussed as well as constant velocity joints for the construction of agricultural engines, road and rail vehicles. This work can be used as a textbook as well as a reference for practitioners, scientists, and students dealing with drive technology.

Couplings and Joints

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Intended for machinery, mechanism, and device designers; engineers, technicians; and inventors and students, this fourth edition includes a glossary of machine design and kinematics terms; material on robotics; and information on nanotechnology and mechanisms applications.

Fundamentals of Machine Design

Redesigned for increased accessibility, this fourth edition of the bestselling Introduction to the Design and Behavior of Bolted Joints has been divided into two separate but complementary volumes. Each volume contains the basic information useful to bolting experts in any industry, but because the two volumes are more clearly focused, they are easier and more efficient to use. The first volume, Non-Gasketed Joints, describes the design, behavior, misbehavior, failure modes, and analysis of the bolts and bolted joints that play a large, even ubiquitous, role in the myriad machines and structures that form our world. The author elucidates why proper bolt tension - often called preload - is critical to the safety and reliability of an assembled joint. He introduces many ways to create that preload as well as ways to measure or inspect for it, then covers how to design joints that are less apt to misbehave or fail, using the guidelines, procedures, and simple algebraic mathematics included in the text. The book provides numerous tables, charts, graphs, and appendices, giving you all the information and data required to design and use non-gasketed bolted joints. Now leaner and meaner, this new edition is better suited

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for classrooms as well as the practicing engineer.

Machine Drawing

Machine Design is interdisciplinary and draws its matter from different subjects such as Thermodynamics, Fluid Mechanics, Production Engineering, Mathematics etc. to name a few. As such, this book serves as a databook for various subjects of Mechanical Engineering. It also acts as a supplement to our popular book, Design of Machine Elements. It's a concise, updated data handbook that maps with the syllabi of all major universities and technical boards of India as well as professional examining bodies such as Institute of Engineers.

Advanced Vibration Analysis

Explaining principles underlying the main micromachining practices currently being used and developed in industrial countries around the world, Micromachining of Engineering Materials outlines advances in material removal that have led to micromachining, discusses procedures for precise measurement, includes molecular-level theories, describes vaporizing workpiece material with spark discharges and photon light energy, examines mask-based and maskless anodic dissolution processes, investigates nanomachining by firing ions at surfaces to remove groups of atoms, analyzes the conversion of kinetic to thermal energy through a controlled fine-focused beam of electrons, and more.

Bonded Joints and Repairs to Composite Airframe Structures

"Fills the niche between purely technical engineering texts and sophisticated engineering software guides-providing a pragmatic, common sense approach to analyzing and remedying electronic packaging configuration problems. Combines classical engineering techniques with modern computing to achieve optimum results in assessment cost and accuracy."

Adhesion Science and Engineering

Delineating a comprehensive theory, *Advanced Vibration Analysis* provides the bedrock for building a general mathematical framework for the analysis of a model of a physical system undergoing vibration. The book illustrates how the physics of a problem is used to develop a more specific framework for the analysis of that problem. The author elucidates a general theory applicable to both discrete and continuous systems and includes proofs of important results, especially proofs that are themselves instructive for a thorough understanding of the result. The book begins with a discussion of the physics of dynamic systems comprised of particles, rigid bodies, and deformable bodies and the physics and mathematics for the analysis of a system with a single-degree-of-freedom. It develops mathematical models using energy methods and presents the mathematical foundation for the framework. The author illustrates the development and analysis of linear operators

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used in various problems and the formulation of the differential equations governing the response of a conservative linear system in terms of self-adjoint linear operators, the inertia operator, and the stiffness operator. The author focuses on the free response of linear conservative systems and the free response of non-self-adjoint systems. He explores three methods for determining the forced response and approximate methods of solution for continuous systems. The use of the mathematical foundation and the application of the physics to build a framework for the modeling and development of the response is emphasized throughout the book. The presence of the framework becomes more important as the complexity of the system increases. The text builds the foundation, formalizes it, and uses it in a consistent fashion including application to contemporary research using linear vibrations.

Standard Handbook of Machine Design

Equipping practicing engineers and students with the tools to independently assess and understand complex material on the topic, this text is an ideal precursor to advanced heat transfer courses. Intermediate Heat Transfer discusses numerical analysis in conduction and convection, temperature-dependent thermal conductivity, conduction through a slab

Power Transmission Design

Handbook of Plastics Joining

Machine Design is a text on the design of machine elements for the engineering undergraduates of mechanical/production/industrial disciplines. The book provides a comprehensive survey of machine elements and their analytical design methods.

Besides explaining the fundamentals of the tools and techniques necessary to facilitate design calculations, the text includes extensive data on various aspects of machine elements, manufacturing considerations and materials. The extensive pedagogical features make the text student friendly and provide pointers for fast recapitulation.

Mechanical Analysis of Electronic Packaging Systems

The Mechanics of Adhesion shows that adhesion science and technology is inherently an interdisciplinary field, requiring fundamental understanding of mechanics, surfaces, and materials. This volume comprises 19 chapters. Starting with a background and introduction to stress transfer principles; fracture mechanics and singularities; and an energy approach to debonding, the volume continues with analysis of structural lap and butt joint configurations. It then continues with discussions of test methods for strength and constitutive properties; fracture; peel; coatings, the case of adhesion to a single substrate; elastomeric adhesives such as sealants. The role of mechanics in determining the locus of failure in bonded joints is discussed, followed

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by a chapter on rheology relevant to adhesives and sealants. Pressure sensitive adhesive performance; the principles of tack and tack measurements; and contact mechanics relevant to wetting and surface energy measurements are then covered. The volume concludes with sections on fibermatrix bonding and reinforcement; durability considerations for adhesive bonds; ultrasonic non-destructive evaluation of adhesive bonds; and design of adhesive bonds from a strength perspective. This book will be of interest to practitioners in the fields of engineering and to those with an interest in adhesion science.

Dynamometer

About the Book: Written by three distinguished authors with ample academic and teaching experience, this textbook, meant for diploma and degree students of Mechanical Engineering as well as those preparing for AMIE examination, incorporates the latest st

Design of Mechanical Joints

Providing extensive coverage and comprehensive discussion on the fundamental concepts and processes of machine design, this book begins with detailed discussion of the types of materials, their properties and selection criteria for designing. The text, the first volume of a two volume set, covers different types of stresses including direct stress, bending stress, torsional stress and combined stress in detail. It goes on to explain various types of

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temporary and permanent joints including pin joint, cotter joint, threaded joint and welded joint. Finally, the book covers the design procedure of keys, cotters, couplings, shafts, levers and springs. Also examined are applications of different types of joints used in boilers, bridges, power presses, automobile springs, crew jack and coupling.

An Introduction to the Design and Behavior of Bolted Joints

The new edition of this bestselling reference provides fully updated and detailed descriptions of plastics joining processes, plus an extensive compilation of data on joining specific materials. The volume is divided into two main parts: processes and materials. The processing section has 18 chapters, each explaining a different joining technique. The materials section has joining information for 25 generic polymer families. Both sections contain data organized according to the joining methods used for that material. * A significant and extensive update from experts at The Welding Institute * A systematic approach to discussing each joining method including: process, advantages and disadvantages, applications, materials, equipment, joint design, and welding parameters * Includes international suppliers' directory and glossary of key joining terms * Includes new techniques such as flash free welding and friction stir welding * Covers thermoplastics, thermosets, elastomers, and rubbers.

Gas Turbine Engineering Handbook

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The Gas Turbine Engineering Handbook has been the standard for engineers involved in the design, selection, and operation of gas turbines. This revision includes new case histories, the latest techniques, and new designs to comply with recently passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the Gas Turbine Engineering Hand Book updates the book to cover the new generation of Advanced gas Turbines. It examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them. Comprehensive treatment of Gas Turbines from Design to Operation and Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke; Combustors with emphasis on Dry Low NO_x Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic

problems

Mechanical Design of Machine Components

The book covers fundamental concepts, description, terminology, force analysis and methods of analysis and design. The emphasis in treating the machine elements is on methods and procedures that give the student competence in applying these to mechanical components in general. The book offers the students to learn to use the best available scientific understanding together with empirical information, good judgement, and often a degree of ingenuity, in order to produce the best product. Few unique articles e.g., chain failure modes, lubrication of chain drive, timing belt pulleys, rope lay selection, wire rope manufacturing methods, effect of sheave size etc., are included. Friction materials are discussed in detail for both wet and dry running with the relevant charts used in industry. Design of journal bearing is dealt exhaustively. Salient Features: " Compatible with the Machine Design Data Book (same author and publisher). " Thorough treatment of the requisite engineering mechanics topics. " Balance between analysis and design. " Emphasis on the materials, properties and analysis of the machine element. " Material, factor of safety and manufacturing method are given for each machine element. " Design steps are given for all important machine elements. " The example design problems and solution techniques are spelled out in detail. " Objective type, short answer and review problems are given at the end of each

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chapter. " All the illustrations are done with the help of suitable diagrams. " As per Indian Standards.

Couplings and Joints

Mechanisms and Mechanical Devices Sourcebook, Fourth Edition

Introduction to the Design and Behavior of Bolted Joints, Fourth Edition

Analysis and Design of Machine Elements

"A cornerstone publication that covers the basic principles and practical considerations of design methodology for joints held by rivets, bolts, weld seams, and adhesive materials, Design of Mechanical Joints gives engineers the practical results and formulas they need for the preliminary design of mechanical joints, combining the essential topics of joint mechanics strength of materials and fracture control to provide a complete treatment of problems pertinent to the field of mechanical connections. "

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