

Solution Manual Mechanical Metallurgy

Dieter Bittorrent

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Information Systems for Sustainable Development Lorenz M. Hilty 2005-01-01
Information Systems for Sustainable Development provides a survey on

approaches to information systems supporting sustainable development in the private or public sector. It also documents and encourages the first steps of environmental information processing

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towards this more comprehensive goal. Materials Michael F. Ashby 2013-10-09 Materials, Third Edition, is the essential materials engineering text and resource for students developing skills and understanding of materials properties and selection for engineering applications. This new edition retains its design-led focus and strong emphasis on visual communication while expanding its inclusion of the underlying science of materials to fully meet the needs of instructors teaching an introductory course in materials. A design-led approach motivates and engages students in the study of materials science and engineering through real-life case studies and illustrative applications. Highly visual full color graphics facilitate understanding of materials concepts and properties. For instructors, a solutions manual, lecture slides, online image bank, and materials selection charts for use in

class handouts or lecture presentations are available at <http://textbooks.elsevier.com>. The number of worked examples has been increased by 50% while the number of standard end-of-chapter exercises in the text has been doubled. Coverage of materials and the environment has been updated with a new section on Sustainability and Sustainable Technology. The text meets the curriculum needs of a wide variety of courses in the materials and design field, including introduction to materials science and engineering, engineering materials, materials selection and processing, and materials in design. Design-led approach motivates and engages students in the study of materials science and engineering through real-life case studies and illustrative applications Highly visual full color graphics facilitate understanding of materials concepts and properties Chapters on materials selection

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and design are integrated with chapters on materials fundamentals, enabling students to see how specific fundamentals can be important to the design process For instructors, a solutions manual, lecture slides, online image bank and materials selection charts for use in class handouts or lecture presentations are available at <http://textbooks.elsevier.com> Links with the Cambridge Engineering Selector (CES EduPack), the powerful materials selection software. See www.grantadesign.com for information NEW TO THIS EDITION: Text and figures have been revised and updated throughout The number of worked examples has been increased by 50% The number of standard end-of-chapter exercises in the text has been doubled Coverage of materials and the environment has been updated with a new section on Sustainability and Sustainable Technology

Rules of Thumb for Mechanical

Engineers J. Edward Pope 1997 Fluids -- Heat transfer -- Thermodynamics -- Mechanical seals -- Pumps and compressors -- Drivers -- Gears -- Bearings -- Piping and pressure vessels -- Tribology -- Vibration -- Materials -- Stress and strain -- Fatigue -- Instrumentation -- Engineering economics. *The Stone Age Diet* Walter L. Voegtlin 1975

Introduction to Materials Science for Engineers Shackelford 2007-09 This Text Provides A Balanced And Current Treatment Of The Full Spectrum Of Engineering Materials, Covering All The Physical Properties, Applications And Relevant Properties Associated With The Subject. It Explores All The Major Categories Of Materials While Offering Detailed Examinations Of A Wide Range Of New Materials With High-Tech Applications.

The Space Shuttle Decision T. A. Heppenheimer 1999 Long before the NASA

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was the throes of planning for the Apollo voyages to the Moon, many people had seen the need for a vehicle that could access space routinely. The idea of a reusable space shuttle dates at least to the theoretical rocketplane studies of the 1930s, but by the 1950s it had become an integral part of a master plan for space exploration. The goal of efficient access to space in a heavy-lift booster prompted NASA's commitment to the space shuttle as the vehicle to continue human space flight. By the mid-1960s, NASA engineers concluded that the necessary technology was within reach to enable the creation of a reusable winged space vehicle that could haul scientific and applications satellites of all types into orbit for all users. President Richard M. Nixon approved the effort to build the shuttle in 1972 and the first orbital flight took place in 1981. Although the development program was risky, a

talented group of scientists and engineers worked to create this unique space vehicle and their efforts were largely successful. Since 1981, the various orbiters -Atlantis, Columbia, Discovery, Endeavour, and Challenger (lost in 1986 during the only Space Shuttle accident)- have made early 100 flights into space. Through 1998, the space shuttle has carried more than 800 major scientific and technological payloads into orbit and its astronaut crews have conducted more than 50 extravehicular activities, including repairing satellites and the initial building of the International Space Station. The shuttle remains the only vehicle in the world with the dual ability to deliver and return large payloads to and from orbit, and is also the world's most reliable launch system. The design, now almost three decades old, is still state-of-the-art in many areas, including computerized flight control, airframe

design, electrical power systems, thermal protection system, and main engines. This significant new study of the decision to build the space shuttle explains the shuttle's origin and early development. In addition to internal NASA discussions, this work details the debates in the late 1960s and early 1970s among policymakers in Congress, the Air Force, and the Office of Management and Budget over the roles and technical designs of the shuttle. Examining the interplay of these organizations with sometimes conflicting goals, the author not only explains how the world's premier space launch vehicle came into being, but also how politics can interact with science, technology, national security, and economics in national government.

Manufacturing Science Ghosh 1990-11-01
Technical, Economic and Societal Effects of Manufacturing 4.0 Mikael Collan
2020-10-01 This open access book is among

the first cross-disciplinary works about Manufacturing 4.0. It includes chapters about the technical, the economic, and the social aspects of this important phenomenon. Together the material presented allows the reader to develop a holistic picture of where the manufacturing industry and the parts of the society that depend on it may be going in the future. Manufacturing 4.0 is not only a technical change, nor is it a purely technically driven change, but it is a societal change that has the potential to disrupt the way societies are constructed both in the positive and in the negative. This book will be of interest to scholars researching manufacturing, technological innovation, innovation management and industry 4.0.

The Science of Literature Helmut Müller-Sievers 2015-04-24 One of the most contentious questions in contemporary literary studies is whether there can ever

be a science of literature that can lay claim to objectivity and universality, for example by concentrating on philological criticism, by appealing to cognitive science, or by exposing the underlying media of literary communication. The present collection of essays seeks to open up this discussion by posing the question's historical and systematic double: has there been a science of literature, i.e. a mode of presentation and practice of reference in science that owes its coherence to the discourse of literature? Detailed analyses of scientific, literary and philosophical texts show that from the late 18th to the late 19th century science and literature were bound to one another through an intricate web of mutual dependence and distinct yet incalculable difference. The Science of Literature suggests that this legacy continues to shape the relation between literary and scientific discourses inside and outside of academia.

Films that Work Vinzenz Hediger 2009
Industriële films worden gezien als een apart filmgenre van de twintigste eeuw. Ze werden geproduceerd en gesponsord door de overheid en grote bedrijven en moesten vooral aan de wensen van de sponsors voldoen, en niet zo zeer aan die van de filmmakers. In de hoogtijdagen werkten er duizenden mensen aan deze industriële films. Zo zijn er vakbladen en filmfestivals ontstaan door samenwerking met grote bedrijven als Shell en AT & T. Daarnaast hebben belangrijke regisseurs, zoals Buster Keaton, John Grierson en Alain Resnais, aan deze films meegewerkt. Toch lijkt de industriële film geen spoor te hebben achtergelaten in het filmische culturele discours. *Films that Work* is het eerste boek waarin de industriële film en zijn opmerkelijke geschiedenis worden onderzocht.

The Handbook of Global Energy Policy

Andreas Goldthau 2016-11-14 This is the first handbook to provide a global policy perspective on energy, bringing together a diverse range of international energy issues in one volume. Maps the emerging field of global energy policy both for scholars and practitioners; the focus is on global issues, but it also explores the regional impact of international energy policies Accounts for the multi-faceted nature of global energy policy challenges and broadens discussions of these beyond the prevalent debates about oil supply Analyzes global energy policy challenges across the dimensions of markets, development, sustainability, and security, and identifies key global policy challenges for the future Comprises newly-commissioned research by an international team of scholars and energy policy practitioners

Imperfections in Crystalline Solids Wei Cai 2016-09-15 This textbook provides

students with a complete working knowledge of the properties of imperfections in crystalline solids. Readers will learn how to apply the fundamental principles of mechanics and thermodynamics to defect properties in materials science, gaining all the knowledge and tools needed to put this into practice in their own research. Beginning with an introduction to defects and a brief review of basic elasticity theory and statistical thermodynamics, the authors go on to guide the reader in a step-by-step way through point, line, and planar defects, with an emphasis on their structural, thermodynamic, and kinetic properties. Numerous end-of-chapter exercises enable students to put their knowledge into practice, and with solutions for instructors and MATLAB® programs available online, this is an essential text for advanced undergraduate and introductory graduate

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courses in crystal defects, as well as being ideal for self-study.

Strength Of Materials S. Ramamrutham

2008 This book on the Strength Of

Materials deals with the basic principles of the subject. All topics have been introduced in a simple manner. The book has been written mainly in the M.K.S. system of units. The book has been prepared to suit the requirements of students preparing for A.M.I.E. degree and diploma examinations in engineering. The chapters Shear Forces and Bending Moments, Stresses in Beams, Masonry Dams and Retaining Walls, Fixed and Continuous Beams and Columns and Struts: have been enlarged. Problems have been taken from A.M.I.E. and various university examinations. This edition contains hundreds of fully solved problems besides many problems set for exercise at the end of each chapter.

Restorative Dental Materials Robert George

Craig 1997 This text provides treatment of dental materials, giving students fundamental information needed to understand the laboratory and clinical properties of the materials. The scientific base for the technical procedures and manipulation of materials is provided as well as the background required for discriminating selection of materials for dental practice. Selected problems are featured at the end of each chapter to help the student to apply the information to practical situations.

Mechanical Metallurgy George Ellwood

Dieter 1988-01-01

Shigley's Mechanical Engineering

Design Richard Budynas 2014-01-27

A Life of Magic Chemistry George A. Olah

2002-01-31 The fascinating

autobiographical reflections of Nobel

Prizewinner George Olah How did a young

man who grew up in Hungary between the

two World Wars go from cleaning rubble and moving pianos at the end of World War II in the Budapest Opera House to winning the Nobel Prize in Chemistry? George Olah takes us on a remarkable journey from Budapest to Cleveland to Los Angeles—with a stopover in Stockholm, of course. An innovative scientist, George Olah is truly one of a kind, whose amazing research into extremely strong acids and their new chemistry yielded what is now commonly known as superacidic "magic acid chemistry." A Life of Magic Chemistry is an intimate look at the many journeys that George Olah has traveled—from his early research and teaching in Hungary, to his move to North America where, during his years in industry, he continued his study of the elusive cations of carbon, to his return to academia in Cleveland, and, finally, his move to Los Angeles, where he built the Loker Hydrocarbon Research Institute to

find new solutions to the grave problem of the world's diminishing natural oil and gas resources and to mitigate global warming by recycling carbon dioxide into hydrocarbon fuels and products. Professor Olah invites the reader to enjoy the story of his remarkable path—marked by hard work, imagination, and never-ending quests for discovery—which eventually led to the Nobel Prize. Intertwining his research and teaching with a unique personal writing style truly makes A Life of Magic Chemistry an engaging read. His autobiography not only touches on his exhilarating life and pursuit for new chemistry but also reflects on the broader meaning of science in our perpetual search for understanding and knowledge.

Mechanical Design A. C. Ugural 2004
Mechanical Design: An Integrated Approach provides a comprehensive, integrated approach to the subject of

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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 receive 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.

Lean Thinking James P. Womack
2013-09-26 Lean Thinking was launched in the fall of 1996, just in time for the recession of 1997. It told the story of how American, European, and Japanese firms applied a simple set of principles called 'lean thinking' to survive the recession of

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1991 and grow steadily in sales and profits through 1996. Even though the recession of 1997 never happened, companies were starving for information on how to make themselves leaner and more efficient. Now we are dealing with the recession of 2001 and the financial meltdown of 2002. So what happened to the exemplar firms profiled in Lean Thinking? In the new fully revised edition of this bestselling book those pioneering lean thinkers are brought up to date. Authors James Womack and Daniel Jones offer new guidelines for lean thinking firms and bring their groundbreaking practices to a brand new generation of companies that are looking to stay one step ahead of the competition. *Standard Handbook of Machine Design* Joseph Edward Shigley 1996 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 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.

Fundamentals of Modern

Manufacturing Mikell P. Groover

1996-01-15 This book takes a modern, all-inclusive look at manufacturing processes. Its coverage is strategically divided—65% concerned with manufacturing process technologies, 35% dealing with engineering materials and production systems.

Lubricants and Lubrication, 2 Volume

Set Mang 2017-05-08 Praise for the previous edition: “Contains something for everyone involved in lubricant technology” — Chemistry & Industry This completely revised third edition incorporates the latest data available and reflects the knowledge of one of the largest companies active in the business. The authors take into account the interdisciplinary character of the field, considering aspects of engineering, materials science, chemistry, health and

safety. The result is a volume providing chemists and engineers with a clear interdisciplinary introduction and guide to all major lubricant applications, focusing not only on the various products but also on specific application engineering criteria. A classic reference work, completely revised and updated (approximately 35% new material) focusing on sustainability and the latest developments, technologies and processes of this multi billion dollar business Provides chemists and engineers with a clear interdisciplinary introduction and guide to all major lubricant applications, looking not only at the various products but also at specific application engineering criteria All chapters are updated in terms of environmental and operational safety. New guidelines, such as REACH, recycling alternatives and biodegradable base oils are introduced Discusses the integration of micro- and

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nano-tribology and lubrication systems
Reflects the knowledge of Fuchs Petrolub
SE, one of the largest companies active in
the lubrication business 2 Volumes
wileyonlinelibrary.com/ref/lubricants
*Handbook of Photovoltaic Science and
Engineering* Antonio Luque 2011-03-29 The
most comprehensive, authoritative and
widely cited reference on photovoltaic solar
energy Fully revised and updated, the
Handbook of Photovoltaic Science and
Engineering, Second Edition incorporates
the substantial technological advances and
research developments in photovoltaics
since its previous release. All topics relating
to the photovoltaic (PV) industry are
discussed with contributions by
distinguished international experts in the
field. Significant new coverage includes:
three completely new chapters and six
chapters with new authors device
structures, processing, and manufacturing

options for the three major thin film PV
technologies high performance approaches
for multijunction, concentrator, and space
applications new types of organic polymer
and dye-sensitized solar cells economic
analysis of various policy options to
stimulate PV growth including effect of
public and private investment Detailed
treatment covers: scientific basis of the
photovoltaic effect and solar cell operation
the production of solar silicon and of
silicon-based solar cells and modules how
choice of semiconductor materials and their
production influence costs and performance
making measurements on solar cells and
modules and how to relate results under
standardised test conditions to real outdoor
performance photovoltaic system
installation and operation of components
such as inverters and batteries.
architectural applications of building-
integrated PV Each chapter is structured to

be partially accessible to beginners while providing detailed information of the physics and technology for experts. Encompassing a review of past work and the fundamentals in solar electric science, this is a leading reference and invaluable resource for all practitioners, consultants, researchers and students in the PV industry.

Materials Selection in Mechanical

Design M. F. Ashby 1992-01-01 New materials enable advances in engineering design. This book describes a procedure for material selection in mechanical design, allowing the most suitable materials for a given application to be identified from the full range of materials and section shapes available. A novel approach is adopted not found elsewhere. Materials are introduced through their properties; materials selection charts (a new development) capture the important features of all

materials, allowing rapid retrieval of information and application of selection techniques. Merit indices, combined with charts, allow optimisation of the materials selection process. Sources of material property data are reviewed and approaches to their use are given. Material processing and its influence on the design are discussed. The book closes with chapters on aesthetics and industrial design. Case studies are developed as a method of illustrating the procedure and as a way of developing the ideas further.

Biomimetics Bharat Bhushan 2016-02-19 This revised, updated and expanded new edition presents an overview of biomimetics and biologically inspired structured surfaces. It deals with various examples of biomimetics which include surfaces with roughness-induced superomniphobicity, self-cleaning, antifouling, and controlled adhesion. The focus in the book is on the

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Lotus Effect, Salvinia Effect, Rose Petal Effect, Oleophobic/philic Surfaces, Shark Skin Effect, and Gecko Adhesion. This new edition also contains new chapters on the butterfly wing effect, bio- and inorganic fouling and structure and Properties of Nacre and structural coloration.

Metal Recycling 2015-01-14 Metal recycling is a complex business that is becoming increasingly difficult! Recycling started long ago, when people realized that it was more resource- and cost-efficient than just throwing away the resources and starting all over again. In this report, we discuss how to increase metal-recycling rates and thus resource efficiency from both quantity and quality viewpoints. The discussion is based on data about recycling input, and the technological infrastructure and worldwide economic realities of recycling. Decision-makers set increasingly ambitious targets for recycling, but far too much

valuable metal today is lost because of the imperfect collection of end-of-life (EoL) products, improper practices, or structural deficiencies within the recycling chain, which hinder achieving our goals of high resource efficiency and resource security, and of better recycling rates.

Studies in Large Plastic Flow and Fracture Percy Williams Bridgman 1964
The principles of metallographic laboratory practice George Louis Kehl 1949
New Products Management Charles Merle Crawford 1997 Taking a managerial approach, in order to acquaint students with the managerial steps and processes involved in new product development, this work includes coverage of product protocol.
High Voltage Test Techniques Dieter Kind 2001-01-24 The second edition of High Voltage Test Techniques has been completely revised. The present revision takes into account the latest international

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developments in High Voltage and Measurement technology, making it an essential reference for engineers in the testing field. High Voltage Technology belongs to the traditional area of Electrical Engineering. However, this is not to say that the area has stood still. New insulating materials, computing methods and voltage levels repeatedly pose new problems or open up methods of solution; electromagnetic compatibility (EMC) or components and systems also demand increased attention. The authors hope that their experience will be of use to students of Electrical Engineering confronted with High Voltage problems in their studies, in research and development and also in the testing field. Benefit from a completely revised edition Brings you up-to-date with th latest international developments in High Voltage and Measurement technology An essential reference for engineers in the

testing field

Fluid Mechanics Yunus A. Çengel 2006
Covers the basic principles and equations of fluid mechanics in the context of several real-world engineering examples. This book helps students develop an intuitive understanding of fluid mechanics by emphasizing the physics, and by supplying figures, numerous photographs and visual aids to reinforce the physics.

Mechanical Behavior of Materials

Norman E. Dowling 2007 Comprehensive in scope and readable, this book explores the methods used by engineers to analyze and predict the mechanical behavior of materials. Author Norman E. Dowling provides thorough coverage of materials testing and practical methods for forecasting the strength and life of mechanical parts and structural members. *Testing of Metals* Alok Nayar 2005 This book contains information on equivalent

national and international standard - BIS, ASTM, BS, DIN, ISO and JIS - on testing of metals, hardness conversion tables, macroetchants and microetchants for metals. Besides this, a directory of select standards organizations, technical associations, and testing equipment manufacturers are also included.

Craig's Restorative Dental Materials

Robert George Craig 2006 Presenting a comprehensive exploration of restorative dental materials, this book provides the information readers need to know to correctly use dental materials in the clinic and dental laboratory. Ranging from fundamental concepts to advanced skills, it also provides the scientific basis for technical procedures and manipulation of materials.

Pro Full-Text Search in SQL Server

2008 Hilary Cotter 2009-01-29 Businesses today want actionable insights into their

data—they want their data to reveal itself to them in a natural and user-friendly form. What could be more natural than human language? Natural-language search is at the center of a storm of ever-increasing web-driven demand for human-computer communication and information access. SQL Server 2008 provides the tools to take advantage of the features of its built-in enterprise-level natural-language search engine in the form of integrated full-text search (iFTS). iFTS uses text-aware relational queries to provide your users with fast access to content. Whether you want to set up an enterprise-wide Internet or intranet search engine or create less ambitious natural-language search applications, this book will teach you how to get the most out of SQL Server 2008 iFTS: Introducing powerful iFTS features in SQL Server, such as the FREETEXT and CONTAINS predicates, custom thesauruses,

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and stop lists Showing you how to optimize full-text query performance through features like full-text indexes and iFilters Providing examples that help you understand and apply the power of iFTS in your daily projects

What Painting Is James Elkins 2004-11-23 Unlike many books on painting that usually talk about art or painters, James Elkins' compelling and original work focuses on alchemy, for like the alchemist, the painter seeks to transform and be transformed by the medium. In *What Painting Is*, James Elkins communicates the experience of painting beyond the traditional vocabulary of art history. Alchemy provides a magical language to explore what it is a painter really does in her or his studio - the smells, the mess, the struggle to control the uncontrollable, the special knowledge only painters hold of how colours will mix, and how they will look. Written from the

perspective of a painter-turned-art historian, *What Painting Is* is like nothing you have ever read about art.

Materials Handbook François Cardarelli 2008-03-19 This unique and practical book provides quick and easy access to data on the physical and chemical properties of all classes of materials. The second edition has been much expanded to include whole new families of materials while many of the existing families are broadened and refined with new material and up-to-date information. Particular emphasis is placed on the properties of common industrial materials in each class. Detailed appendices provide additional information, and careful indexing and a tabular format make the data quickly accessible. This book is an essential tool for any practitioner or academic working in materials or in engineering.

[The Rickover Effect](#) Theodore Rockwell

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2002 Originally published: [Annapolis, Md.]:
Naval Institute Press, c1992.

Steel Designers' Manual Fifth Edition: The
Steel Construction Institute Institute Steel
Construction 1993-01-18 This classic
manual for structural steelwork design was
first published in 1956. Since then, it has
sold many thousands of copies worldwide.
The fifth edition is the first major revision
for 20 years and is the first edition to be

fully based on limit state design, now used
as the primary design method, and on the
UK code of practice, BS 5950. It provides,
in a single volume, all you need to know
about structural steel design.

Getting Started with Arduino Massimo
Banzi 2011-09-13 Presents an introduction
to the open-source electronics prototyping
platform.