

[MOBI] Mechanical Metallurgy George E Dieter

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Mechanical Metallurgy-George Ellwood Dieter 1988-01-01

Mechanical Metallurgy-George E. Dieter 1986

Mechanical Metallurgy-George E. Dieter, Jr. 2014-09-29 A study on the behavior and response of metals to applied forces.

Metallurgy Fundamentals-Daniel A. Brandt 1999 The revised and expanded edition of Metallurgy Fundamentals provides the student with instruction on the basic properties, characteristics, and production of the major metal families. Clear, concise language and numerous illustrations make this an easy-to-understand text for an introductory course in metallurgy. Over 450 tables, diagrams, and photographs show both the theoretical and practical aspects of metallurgy.

Handbook of Workability and Process Design-George E. Dieter 2003

Introduction to physical metallurgy-Avner 1997-12-01

Phase Transformations in Metals and Alloys, Third Edition (Revised Reprint)-David A. Porter 1992-09-10 In the decade since the first edition of this popular text was published, the metallurgical field has undergone rapid developments in many sectors. Nonetheless, the underlying principles governing these developments remain the same. A textbook that presents these advances within the context of the fundamentals is greatly needed by instructors in the field Phase Transformations in Metals and Alloys, Second Edition maintains the simplicity that undergraduate instructors and students have come to appreciate while updating and expanding coverage of recently developed methods and materials. The book is effectively divided into two parts. The beginning chapters contain the background material necessary for understanding phase transformations - thermodynamics, kinetics, diffusion theory and the structure and properties of interfaces. The following chapters deal with specific transformations - solidification, diffusional transformation in solids and diffusionless transformation. Case studies of engineering alloys are incorporated to provide a link between theory and practice. New additions include an extended list of further reading at the end of each chapter and a section containing complete solutions to all exercises in the book Designed for final year undergraduate and postgraduate students of metallurgy, materials science, or engineering materials, this is an ideal textbook for both students and instructors.

Solutions Manual to Accompany Mechanical Metallurgy-George Ellwood Dieter 1976

DISLOCATIONS AND MECHANICAL BEHAVIOUR OF MATERIALS-M. N. SHETTY 2013-01-31 Primarily intended for the senior undergraduate and postgraduate students of Metallurgical and Materials Engineering/Mechanical Engineering, the book begins with the description of elementary mechanical testing method and then moves on to the theory of elasticity, the micromechanics of high strain rate deformation phenomenon and quantitative methods of materials selection. Dislocation and their applications is the strength of this book. The topics such as creep, fatigue and fracture are comprehensively covered. The final chapter presents the principles of materials selection. The book contains numerous solved and unsolved examples to reinforce the understanding of the subject.

Engineering Design-George E. Dieter 2008-05-01

Finding Equilibrium-Till D ppe 2014-07-21 Finding Equilibrium explores the post-World War II transformation of economics by constructing a history of the proof of its central dogma—that a competitive market economy may possess a set of equilibrium prices. The model economy for which the theorem could be proved was mapped out in 1954 by Kenneth Arrow and Gerard Debreu collaboratively, and by Lionel McKenzie separately, and would become widely known as the "Arrow-Debreu Model." While Arrow and Debreu would later go on to win separate Nobel prizes in economics, McKenzie would never receive it. Till D ppe and E. Roy Weintraub explore the lives and work of these economists and the issues of scientific credit against the extraordinary backdrop of overlapping research communities and an economics discipline that was shifting dramatically to mathematical modes of expression. Based on recently opened archives, Finding Equilibrium shows the complex interplay between each man's personal life and work, and examines compelling ideas about scientific credit, publication, regard for different research institutions, and the awarding of Nobel prizes. Instead of asking whether recognition was rightly or wrongly given, and who were the heroes or villains, the book considers attitudes toward intellectual credit and strategies to gain it vis-à-vis the communities that grant it. Telling the story behind the proof of the central theorem in economics, Finding Equilibrium sheds light on the changing nature of the scientific community and the critical connections between the personal and public rewards of scientific work.

Metallurgical Problems-Allison Butts 2018-10-15 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Mechanical Behavior of Materials-Thomas H. Courtney 2005-12-16 This outstanding text offers a comprehensive treatment of the principles of the mechanical behavior of materials. Appropriate for senior and graduate courses, it is distinguished by its focus on the relationship between macroscopic properties, material microstructure, and fundamental concepts of bonding and crystal structure. The current, second edition retains the original editions extensive coverage of nonmetallics while increasing coverage of ceramics, composites, and polymers that have emerged as structural materials in their own right and are now competitive with metals in many applications. It contains new case studies, includes solved example problems, and incorporates real-life examples. Because of the books extraordinary breadth and depth, adequate coverage of all of the material requires two full semesters of a typical three-credit course. Since most curricula do not have the luxury of allocating this amount of time to mechanical behavior of materials, the text has been designed so that material can be culled or deleted with ease. Instructors can select topics they wish to emphasize and are able to proceed at any level they consider appropriate.

Structure of Materials-Marc De Graef 2012-11-15 This highly readable, popular textbook for upper undergraduates and graduates comprehensively covers the fundamentals of crystallography and symmetry, applying these concepts to a large range of materials. New to this edition are more streamlined coverage of crystallography, additional coverage of magnetic point group symmetry and updated material on extraterrestrial minerals and rocks. New exercises at the end of chapters, plus over 500 additional exercises available online, allow students to check their understanding of key concepts and put into practice what they have learnt. Over 400 illustrations within the text help students visualise crystal structures and more abstract mathematical objects, supporting more difficult topics like point group symmetries. Historical and biographical sections add colour and interest by giving an insight into those who have contributed significantly to the field. Supplementary online material includes password-protected solutions, over 100 crystal structure data files, and Powerpoints of figures from the book.

Encyclopedia of Iron, Steel, and Their Alloys (Online Version)-Rafael Col s 2016-01-06 The first of many important works featured in CRC Press' Metals and Alloys Encyclopedia Collection, the Encyclopedia of Iron, Steel, and Their Alloys covers all the fundamental, theoretical, and application-related aspects of the metallurgical science, engineering, and technology of iron, steel, and their alloys. This Five-Volume Set addresses topics such as extractive metallurgy, powder metallurgy and processing, physical metallurgy, production engineering, corrosion engineering, thermal processing, metalworking, welding, iron- and steelmaking, heat treating, rolling, casting, hot and cold forming, surface finishing and coating, crystallography, metallography, computational metallurgy, metal-matrix composites, intermetallics, nano- and micro-structured metals and alloys, nano- and micro-alloying effects, special steels, and mining. A valuable reference for materials scientists and engineers, chemists, manufacturers, miners, researchers, and students, this must-have encyclopedia: Provides extensive coverage of properties and recommended practices Includes a wealth of helpful charts, nomograms, and figures Contains cross referencing for quick and easy search Each entry is written by a subject-matter expert and reviewed by an international panel of renowned researchers from academia, government, and industry. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for

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The Physics of Metals-Frederick Seitz 1943

Introduction to the Thermodynamics of Materials, Fifth Edition-David R. Gaskell 2003-02-07

Physical Metallurgy-Gregory N. Haidemenopoulos 2018-02-07 Physical metallurgy is one of the main fields of metallurgical science dealing with the development of the microstructure of metals in order to achieve desirable properties required in technological applications. Physical Metallurgy: Principles and Design focuses on the processing-structure-properties triangle as it applies to metals and alloys. It introduces the fundamental principles of physical metallurgy and the design methodologies for alloys and processing. The first part of the book discusses the structure and change of structure through phase transformations. The latter part of the books deals with plastic deformation, strengthening mechanisms, and mechanical properties as they relate to structure. The book also includes a chapter on physical metallurgy of steels and concludes by discussing the computational tools, involving computational thermodynamics and kinetics, to perform alloy and process design.

MATERIALS SCIENCE AND ENGINEERING-V. RAGHAVAN 2015-05-01 This well-established and widely adopted book, now in its Sixth Edition, provides a thorough analysis of the subject in an easy-to-read style. It analyzes, systematically and logically, the basic concepts and their applications to enable the students to comprehend the subject with ease. The book begins with a clear exposition of the background topics in chemical equilibrium, kinetics, atomic structure and chemical bonding. Then follows a detailed discussion on the structure of solids, crystal imperfections, phase diagrams, solid-state diffusion and phase transformations. This provides a deep insight into the structural control necessary for optimizing the various properties of materials. The mechanical properties covered include elastic, anelastic and viscoelastic behaviour, plastic deformation, creep and fracture phenomena. The next four chapters are devoted to a detailed description of electrical conduction, superconductivity, semiconductors, and magnetic and dielectric properties. The final chapter on 'Nanomaterials' is an important addition to the sixth edition. It describes the state-of-art developments in this new field. This eminently readable and student-friendly text not only provides a masterly analysis of all the relevant topics, but also makes them comprehensible to the students through the skillful use of well-drawn diagrams, illustrative tables, worked-out examples, and in many other ways. The book is primarily intended for undergraduate students of all branches of engineering (B.E./B.Tech.) and postgraduate students of Physics, Chemistry and Materials Science. KEY FEATURES • All relevant units and constants listed at the beginning of each chapter • A note on SI units and a full table of conversion factors at the beginning • A new chapter on 'Nanomaterials' describing the state-of-art information • Examples with solutions and problems with answers • About 350 multiple choice questions with answers

Testing of Metallic Materials-A V K Suryanarayana 2018-06 1. Tensile and Torsion Tests 2. Hardness 3. Impact Tests 4. Fracture Mechanism 5. Fatigue 6. Creep 7. Testing of Miscellaneous Products 8. Non-destructive Testing 9. Visual Examination 10. Leakage Testing 11. Penetrant Methods 12. Magnetic Methods 13. Acoustic Methods 14. Radiography 15. Thermal Tests 16. Electrical Methods 17. Surface and Thickness Measurements 18. Defects

Kinematics and Dynamics of Machines-George H. Martin 2002-05-28 Kinematic and dynamic analysis are crucial to the design of mechanism and machines. In this student-friendly text, Martin presents the fundamental principles of these important disciplines in as simple a manner as possible, favoring basic theory over special constructions. Among the areas covered are the equivalent four-bar linkage; rotating vector treatment for analyzing multi-cylinder engines; and critical speeds, including torsional vibration of shafts. The book also describes methods used to manufacture disk cams, and it discusses mathematical methods for calculating the cam profile, the pressure angle, and the locations of the cam. This book is an excellent choice for courses in kinematics of machines, dynamics of machines, and machine design and vibrations.

An Introduction to Metallurgy, Second Edition-Sir Alan Cottrell 2019-10-16 This classic textbook has been reprinted by The Institute of Materials to provide undergraduates with a broad overview of metallurgy from atomic theory, thermodynamics, reaction kinetics and crystal physics, to elasticity and plasticity.

Powder Metallurgy Processing-Howard Kuhn 2012-12-02 Powder Metallurgy Processing: New Techniques and Analyses covers the application of advanced analytical techniques in metallurgy, mechanics, and economics to the fundamentals of powder fabrication processes. The book discusses powder production by gas and water atomization of liquid metals; the triaxial stress state compaction of powders; and the diffusional homogenization of compacted blends of powders. The text also describes the deformation processing of sintered powder materials; the analysis of mechanical property-structure relations in powder forgings; and the economic risk analysis of a miniplant for production of steel strip from powder. Chemical engineers and metallurgists and students taking related courses will find the book invaluable.

Thermodynamics in Materials Science-Robert DeHoff 2006-03-13 Thermodynamics in Materials Science, Second Edition is a clear presentation of how thermodynamic data is used to predict the behavior of a wide range of materials, a crucial component in the decision-making process for many materials science and engineering applications. This primary textbook accentuates the integration of principles, strategies, a

I-Power-George Dieter 2015-08-25 We all too often look for happiness and contentment via relationships, success and recognition — all things that lie outside ourselves. Underpinned by Boundary Theory, this book illustrates why this approach is actually at the heart of why we end up experiencing unhappiness and discontent. By learning to approach life with a boundary focus, we discover that nobody can 'make' us feel or do anything; only we are responsible for how we feel. We also become able to switch our rational brain on, and our emotional brain off, when making decisions or facing challenges. And we are far better placed to minimise stress. By implementing boundaries so that we take responsibility only for ourselves, we will find ourselves able to lessen interpersonal conflict, and greatly enhance our feelings of contentment, fulfilment and balance.

Applied Thermodynamics-Onkar Singh 2006-01-01 This Book Presents A Systematic Account Of The Concepts And Principles Of Engineering Thermodynamics And The Concepts And Practices Of Thermal Engineering. The Book Covers Basic Course Of Engineering Thermodynamics And Also Deals With The Advanced Course Of Thermal Engineering. This Book Will Meet The Requirements Of The Undergraduate Students Of Engineering And Technology Undertaking The Compulsory Course Of Engineering Thermodynamics. The Subject Matter Of Book Is Sufficient For The Students Of Mechanical Engineering/Industrial-Production Engineering, Aeronautical Engineering, Undertaking Advanced Courses In The Name Of Thermal Engineering/Heat Engineering/ Applied Thermodynamics Etc. Presentation Of The Subject Matter Has Been Made In Very Simple And Understandable Language. The Book Is Written In Si System Of Units And Each Chapter Has Been Provided With Sufficient Number Of Typical Numerical Problems Of Solved And Unsolved Questions With Answers.

Physical Metallurgy Principles-Robert E. Reed-Hill 1968

Failure Analysis of Engineering Materials-Charles R. Brooks 2002 This text introduces the important aspects associated with the failure analysis of engineering components; and provides a treatment of both macroscopic and microscopic observations of fracture surfaces. --

Corrosion Engineering-Pierre Roberge 2008-04-20 The Latest Methods for Preventing and Controlling Corrosion in All Types of Materials and Applications Now you can turn to Corrosion Engineering for expert coverage of the theory and current practices you need to understand water, atmospheric, and high-temperature corrosion processes. This comprehensive resource explains step-by-step how to prevent and control corrosion in all types of metallic materials and applications-from steel and aluminum structures to pipelines. Filled with 300 illustrations, this skills-building guide shows you how to utilize advanced inspection and monitoring methods for corrosion problems in infrastructure, process and food industries, manufacturing, and military industries. Authoritative and complete, Corrosion Engineering features: Expert guidance on corrosion prevention and control techniques Hands-on methods for inspection and monitoring of corrosion problems New methods for dealing with corrosion A review of current practice, with numerous examples and calculations Inside This Cutting-Edge Guide to Corrosion Prevention and Control • Introduction: Scope and Language of Corrosion • Electrochemistry of Corrosion • Environments: Atmospheric Corrosion • Corrosion by Water and Steam • Corrosion in Soils • Reinforced Concrete • High-Temperature Corrosion • Materials and How They Corrode: Engineering Materials • Forms of Corrosion • Methods of Control: Protective Coatings • Cathodic Protection • Corrosion Inhibitors • Failure Analysis and Design Considerations • Testing and Monitoring: Corrosion Testing and Monitoring

Experimentation, Validation, and Uncertainty Analysis for Engineers-Hugh W. Coleman 2018-04-09 Helps engineers and scientists assess and manage uncertainty at all stages of experimentation and validation of simulations Fully updated from its previous edition, Experimentation, Validation, and Uncertainty Analysis for Engineers, Fourth Edition includes expanded coverage and new examples of applying the Monte Carlo Method (MCM) in performing uncertainty analyses. Presenting the current, internationally accepted methodology from ISO, ANSI, and ASME standards for propagating uncertainties using both the MCM and the Taylor Series Method (TSM), it provides a logical approach to experimentation and validation through the application of uncertainty analysis in the planning, design, construction, debugging, execution, data analysis, and reporting phases of experimental and validation programs. It also illustrates how to use a spreadsheet approach to apply the MCM and the TSM, based on the authors' experience in applying uncertainty analysis in complex, large-scale testing of real engineering systems. Experimentation, Validation, and Uncertainty Analysis for Engineers, Fourth Edition includes examples throughout, contains end of chapter problems, and is accompanied by the authors' website www.uncertainty-analysis.com. Guides readers through all aspects of experimentation, validation, and uncertainty analysis Emphasizes the use of the Monte Carlo Method in performing uncertainty analysis Includes complete new examples

throughout Features workable problems at the end of chapters Experimentation, Validation, and Uncertainty Analysis for Engineers, Fourth Edition is an ideal text and guide for researchers, engineers, and graduate and senior undergraduate students in engineering and science disciplines. Knowledge of the material in this Fourth Edition is a must for those involved in executing or managing experimental programs or validating models and simulations.

Dieter Rams: As Little Design as Possible-Sophie Lovell 2011-06-22 "Indifference towards people and the reality in which they live is actually the one and only cardinal sin in design" - Dieter Rams. Dieter Rams' life and work are indelibly linked to his thoughts about how people live, and how they can live better.

Products he designed in the 1960s are still being produced and sold today - only one demonstration of the strength of his work. This comprehensive monograph covers both Rams' life and his work, as well as his ideas on good design, which continue to inspire designers and consumers today. A personal foreword by Jonathan Ive evokes the influence that Rams has had on his own work and, by extension, the objects with which so many of us share our everyday lives. An introduction and an essay by Klaus Kemp tell the story of Rams' early life, his training as an architect, and the intellectual context in which his ideas were developed. The next four chapters examine Rams' work and his life - which are more or less synonymous - in depth. This includes his role at Braun as well as the work he did for the furniture company Vitsoe. Each chapter includes sketches, prototypes, finished products and the marketing for those products, giving a complete picture of Rams' work and its context. Two other chapters in this section present Rams' own house, the only work of architecture that he completed, and examine the products he designed at the level of detail, a crucial aspect to his work. A further chapter examines Rams' "ten commandments" of good design and his credo, "less but better", in the context of his role as head of design at Braun, and a final chapter explores his legacy in the work of contemporary designers including Naoto Fukasawa, Jonathan Ive, Sam Hecht, and Konstantin Grcic. This beautifully designed book includes a wide variety of visual material, including sketches and technical drawings, photographs of Rams' work as well as his life, archival material from both Braun and Vitsoe, Ingeborg Rams' subtle photographs and Vitsoe's playful graphic design and advertising. This book will appeal not only to fans of Dieter Rams' work, but to everyone drawn to the message behind his "ten commandments" of good design - which are really ideas about how we can all live better and more sustainable lives. "

Heat Treatment : Principles and Techniques-T. V. Rajan 2011-01-01

Deformation and Fracture Mechanics of Engineering Materials-Richard W. Hertzberg 1996 This edition comprehensively updates the field of fracture mechanics by including details of the latest research programmes. It contains new material on non-metals, design issues and statistical aspects. The application of fracture mechanics to different types of materials is stressed.

The principles of metallographic laboratory practice-George Louis Kehl 1949

Intermediate Mechanics of Materials-J. R. Barber 2010-11-02 This book covers the essential topics for a second-level course in strength of materials or mechanics of materials, with an emphasis on techniques that are useful for mechanical design. Design typically involves an initial conceptual stage during which many options are considered. At this stage, quick approximate analytical methods are crucial in determining which of the initial proposals are feasible. The ideal would be to get within 30% with a few lines of calculation. The designer also needs to develop experience as to the kinds of features in the geometry or the loading that are most likely to lead to critical conditions. With this in mind, the author tries wherever possible to give a physical and even an intuitive interpretation to the problems under investigation. For example, students are encouraged to estimate the location of weak and strong bending axes and the resulting neutral axis of bending before performing calculations, and the author discusses ways of getting good accuracy with a simple one degree of freedom Rayleigh-Ritz approximation. Students are also encouraged to develop a feeling for structural deformation by performing simple experiments in their outside environment, such as estimating the radius to which an initially straight bar can be bent without producing permanent deformation, or convincing themselves of the dramatic difference between torsional and bending stiffness for a thin-walled open beam section by trying to bend and then twist a structural steel beam by hand-applied loads at one end. In choosing dimensions for mechanical components, designers will expect to be guided by criteria of minimum weight, which with elementary calculations, generally leads to a thin-walled structure as an optimal solution. This consideration motivates the emphasis on thin-walled structures, but also demands that students be introduced to the limits imposed by structural instability. Emphasis is also placed on the effect of manufacturing errors on such highly-designed structures - for example, the effect of load misalignment on a beam with a large ratio between principal stiffness and the large magnification of initial alignment or loading errors in a strut below, but not too far below the buckling load. Additional material can be found on <http://extras.springer.com/> .

Elements of Metallurgy and Engineering Alloys-Flake C. Campbell 2008 This practical reference provides thorough and systematic coverage on both basic metallurgy and the practical engineering aspects of metallic material selection and application.

Welding Technology and Design-V.M. Radhakrishnan 2005 This Book Deals With Welding Methodology And Design Aspects Of Welding. The First Chapter Explains The Different Welding Methods While The Second One Describes The Necessary Welding Metallurgy Aspects Of The Material. Basics Of Strength Of Materials And Fracture Mechanics Are Presented In Chapter 3. The Problems Of Residual Stress And Distortion Are Discussed In Chapter 4. Fatigue And High Temperature Creep Are Frequently Encountered In Welded Components And So Are Discussed In Chapters 5 And 6. Design Of Tubular Joints And Pressure Vessels Is Detailed In Chapter 7. Defects, Their Causes And Remedial Measures And Welding Codes And Tests Are Given In Chapters 8 And 9, Respectively. Design Of Some Typical Joints Is Presented In Chapter 10. The Appendix Provides Typical Questions And Design Problems.The Book Will Be Very Useful To Undergraduate And Postgraduate Students Of Metallurgical, Mechanical And Production Engineering. It Will Also Be Useful To Welding Design Engineers And Can Be Used As An Authentic Reference Source.

Corrosion Engineering-Mars G. Fontana 1988

Pressure Vessels-Somnath Chattopadhyay 2004-10-28 With very few books adequately addressing ASME Boiler & Pressure Vessel Code, and other international code issues, Pressure Vessels: Design and Practice provides a comprehensive, in-depth guide on everything engineers need to know. With emphasis on the requirements of the ASME this consummate work examines the design of pressure vessel com

Metallurgy and Materials PE Exam Solved Problems-Nikhil Kar 2017-05-11 Metallurgical and Materials Engineering Solved Problems includes 160 problem scenarios representing a broad range of the NCEES Metallurgical and Materials PE exam topics. The problem scenarios are instructionally designed so that you learn how to identify and apply related concepts and equations. The breadth of topics covered and the varied complexities of the problems allow you to assess and strengthen your problem-solving skills. Step-by-step solutions demonstrate accurate, efficient solving methods. Metallurgical and Materials Engineering Solved Problems will help you to familiarize yourself with the exam topics connect relevant metallurgical and materials engineering theories to challenging problems navigate through exam-adopted codes and standards identify accurate and efficient problem-solving approaches Topics Covered Structures Properties Processing Performance

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