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ROCCO CARRILLO

Plastic Bending: Theory and Applications Springer

This edited volume contains the selected papers presented at the scientific board meeting of the German Cluster of Excellence on “Integrative Production Technology for High-Wage Countries”, held in November 2014. The topical structure of the book is clustered in six sessions: Integrative Production Technology, Individualised Production, Virtual Production Systems, Integrated Technologies, Self-Optimising Production Systems and Human Factors in Production Technology. The Aachen perspective on a holistic theory of production is complemented by conference papers from external leading researchers in the fields of production, materials science and bordering disciplines. The target audience primarily comprises research experts and practitioners in the field but the book may also be beneficial for graduate students.

e-Design ASM International

While urban settlements are the drivers of the global economy and centres of learning, culture, and innovation and nations rely on competitive dynamic regions for their economic, social, and environmental objectives, urban centres and regions face a myriad of challenges that impact the ways in which people live and work, create wealth, and interact and connect with places. Rapid urbanisation is resulting in urban sprawl, rising emissions, urban poverty and high unemployment rates, housing affordability issues, lack of urban investment, low urban financial and governance capacities, rising inequality and urban crimes, environmental degradation, increasing vulnerability to natural disasters and so forth. At the regional level, low employment, low wage growth, scarce financial resources, climate change, waste and pollution, and rising urban peri-urban competition etc. are impacting the ability of regions to meet socio-economic development goals while protecting biodiversity. The response to these challenges has typically been the application of inadequate or piecemeal solutions, often as a result of fragmented decision-making and competing priorities, with numerous economic, environmental, and social consequences. In response, there is a growing movement towards viewing cities and regions as complex and sociotechnical in nature with people and communities interacting with one another and with objects, such as roads, buildings, transport links etc., within a range of urban and regional settings or contexts. This comprehensive MRW will provide readers with expert interdisciplinary knowledge on how urban centres and regions in locations of varying climates, lifestyles, income levels, and stages development are creating synergies and reducing trade-offs in the development of resilient, resource-efficient, environmentally friendly, liveable, socially equitable, integrated, and technology-enabled centres and regions.

Integrated Computational Materials Engineering Pearson Education India

In this collection, scientists and engineers from across industry, academia, and government present their latest improvements and innovations in all aspects of metal forming science and technology, with the intent of facilitating linkages and collaborations among these groups. Chapters cover the breadth of metal forming topics, from fundamental science to industrial application.

Fundamentals of Fluid Lubrication McGraw-Hill Companies

Still the only book offering comprehensive coverage of the analysis and design of both API equipment and ASME pressure vessels This edition of the classic guide to the analysis and design of process equipment has been thoroughly updated to reflect current practices as well as the latest ASME Codes and API standards. In addition to covering the code requirements governing the design of process equipment, the book supplies structural, mechanical, and chemical engineers with expert guidance to the analysis and design of storage tanks, pressure vessels, boilers, heat exchangers, and related process equipment and its associated external and internal components. The use of process equipment, such as storage tanks, pressure vessels, and heat exchangers has expanded considerably over the last few decades in both the petroleum and chemical industries. The extremely high pressures and temperatures involved with the processes for which the equipment is designed makes it potentially very dangerous to property and life if the equipment is not designed and manufactured to an exacting standard. Accordingly, codes and standards such as the ASME and API were written to assure safety. Still the only guide covering the design of both API equipment and ASME pressure vessels, Structural Analysis and Design of Process Equipment, 3rd Edition: Covers the design of rectangular vessels with various side thicknesses and updated equations for the design of heat exchangers Now includes numerical vibration analysis needed for earthquake evaluation Relates the requirements of the ASME codes to international standards Describes, in detail, the background and assumptions made in deriving many design equations underpinning the ASME and API standards Includes methods for designing components that are not covered in either the API or ASME, including ring girders, leg supports, and internal components Contains procedures for calculating thermal stresses and discontinuity analysis of various components Structural Analysis and Design of Process Equipment, 3rd Edition is an indispensable tool-of-the-trade for mechanical engineers and chemical engineers working in the petroleum and chemical industries, manufacturing, as well as plant engineers in need of a reference for process equipment in power plants, petrochemical facilities, and nuclear facilities.

Практическое использование NX Springer Nature

In this vivid and comprehensible introduction to materials science, the author expands the modern concepts of metal physics to formulate basic theory applicable to other engineering materials, such as ceramics and polymers. Written for engineering students and working engineers with little previous knowledge of solid-state physics, this textbook enables the reader to study more specialized and fundamental literature of materials science.

Dozens of illustrative photographs, many of them transmission electron microscopy images, plus line drawings, aid developing a firm appreciation of this complex topic. Hard-to-grasp terms such as "textures" are lucidly explained - not only the phenomenon itself, but also its consequences for the material properties. This excellent book makes materials science more transparent.

Stainless Steels for Design Engineers Adaso Adastra Engineering Center

This is the second part of a four part series that covers discussion of computer design tools throughout the design process. Through this book, the reader will... ..understand basic design principles and all digital design paradigms. ...understand CAD/CAE/CAM tools available for various design related tasks. ...understand how to put an integrated system together to conduct All Digital Design (ADD). ...understand industrial practices in employing ADD and tools for product development. Provides a comprehensive and thorough coverage of essential elements for product manufacturing and cost estimating using the computer aided engineering paradigm Covers CAD/CAE in virtual manufacturing, tool path generation, rapid prototyping, and cost estimating; each chapter includes both analytical methods and computer-aided design methods, reflecting the use of modern computational tools in engineering design and practice A case study and tutorial example at the end of each chapter provides hands-on practice in implementing off-the-shelf computer design tools Provides two projects at the end of the book showing the use of Pro/ENGINEER® and SolidWorks® to implement concepts discussed in the book

UG NX John Wiley & Sons

The 2014 International Conference on Mechatronics Engineering and Electrical Engineering (CMEEE2014) was held October 18-19, 2014 in Sanya, Hainan, China. CMEEE2014 provided a valuable opportunity for researchers, scholars and scientists to exchange their new ideas and application experiences face to face together, to establish business or research

Advances in Production Technology Springer Science & Business Media

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Sheet Bulk Metal Forming Butterworth-Heinemann

Lightness, efficiency, durability and economic as well as ecological viability are key attributes required from materials today. In the transport industry, the performance needs are felt exceptionally strongly. This handbook and ready reference covers the use of structural materials throughout this industry, particularly for the road, air and rail sectors. A strong focus is placed on the latest developments in materials engineering. The authors present new insights and trends, providing firsthand information from the perspective of universities, Fraunhofer and independent research institutes, aerospace and automotive companies and suppliers. Arranged into parts to aid the readers in finding the information relevant to their needs: * Metals * Polymers * Composites * Cellular Materials * Modeling and Simulation * Higher Level Trends

Forming the Future Trans Tech Publications Ltd

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 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

Mechatronics Engineering and Electrical Engineering John Wiley & Sons

Volume is indexed by Thomson Reuters CPCI-S (WoS). This special volume comprises 287 expertly refereed papers. The main theme covered is Materials and Manufacturing Technology; the main goal being to provide an international scientific forum for the exchange of new ideas in a number of fields, and to facilitate in-depth interaction via discussions with peers from around the world. Core areas of Materials and Manufacturing Technology, and multi-disciplinary, inter-disciplinary and practical aspects are covered, making this essential reading for anyone interested in these

topics.

[Airframe Structural Design](#) Academic Press

Contains more than 1400 curves, almost three times as many as in the 1987 edition. The curves are normalized in appearance to aid making comparisons among materials. All diagrams include metric units, and many also include U.S. customary units

[Mastering Uncertainty in Mechanical Engineering](#) ASM International

Presents more than 120 expert failure analysis case histories from industries including automotive, aerospace, utilities, oil and gas, petrochemical, biomedical, ground transportation, off-highway vehicles, and more. Volume 2 builds on the tremendous acceptance of Volume 1 by the failure analysis community. The two volumes can also be purchased as a set for a special discounted price. Learn how others have investigated and solved failures in various industries involving a wide range of failure modes, materials, and analysis techniques.

[Mechanical Working and Steel Processing](#) Springer Nature

Nanoclusters' potential applications include microelectronics, magnetic storage, optical data storage, spintronics devices, telecommunications, sensors, transducers, biological markers, switches, electroluminescent displays, chemical reactors, and catalysts, among others; nanocrystalline materials w

[Fatigue, Durability, and Fracture Mechanics](#) World Scientific

This book presents the findings of research projects from the Transregional Collaborative Research Centre 73. These proceedings are the result of years of research into sheet-bulk metal forming. The book discusses the challenges posed by simulating sheet-bulk metal forming. It takes into account the different phenomena characteristic to both sheet and bulk forming fields, and explores the demands this makes on modelling the processes. It then summarizes the research, and presents from a practitioner's point of view. This means the book is of interest to and helps both academics and industrial engineers within the field of sheet-bulk metal forming.

Machine Design: An Integrated Approach, 2/E Springer

This book presents selected papers presented during Fatigue Durability India 2019. The contents of this volume discuss advances in the field of fatigue, durability, and fracture, and cover mechanical failure and its applications. The chapters cover a wide spectrum of topics, including design, engineering, testing and computational evaluation of the components or systems for fatigue, durability, and fracture mechanics. The contents of this book will appeal not only to academic researchers, but also to design engineers, failure analysts, maintenance engineers, certification personnel, and R&D professionals involved in a wide variety of industries.

[The Palgrave Encyclopedia of Urban and Regional Futures](#) CRC Press

e-Design: Computer-Aided Engineering Design, Revised First Edition is the first book to integrate a discussion of computer design tools throughout the design process. Through the use of this book, the reader will understand basic design principles and all-digital design paradigms, the CAD/CAE/CAM

tools available for various design related tasks, how to put an integrated system together to conduct All-Digital Design (ADD), industrial practices in employing ADD, and tools for product development. Comprehensive coverage of essential elements for understanding and practicing the e-Design paradigm in support of product design, including design method and process, and computer based tools and technology Part I: Product Design Modeling discusses virtual mockup of the product created in the CAD environment, including not only solid modeling and assembly theories, but also the critical design parameterization that converts the product solid model into parametric representation, enabling the search for better design alternatives Part II: Product Performance Evaluation focuses on applying CAE technologies and software tools to support evaluation of product performance, including structural analysis, fatigue and fracture, rigid body kinematics and dynamics, and failure probability prediction and reliability analysis Part III: Product Manufacturing and Cost Estimating introduces CAM technology to support manufacturing simulations and process planning, sheet forming simulation, RP technology and computer numerical control (CNC) machining for fast product prototyping, as well as manufacturing cost estimate that can be incorporated into product cost calculations Part IV: Design Theory and Methods discusses modern decision-making theory and the application of the theory to engineering design, introduces the mainstream design optimization methods for both single and multi-objectives problems through both batch and interactive design modes, and provides a brief discussion on sensitivity analysis, which is essential for designs using gradient-based approaches Tutorial lessons and case studies are offered for readers to gain hands-on experiences in practicing e-Design paradigm using two suites of engineering software: Pro/ENGINEER-based, including Pro/MECHANICA Structure, Pro/ENGINEER Mechanism Design, and Pro/MFG; and SolidWorks-based, including SolidWorks Simulation, SolidWorks Motion, and CAMWorks. Available on the companion website <http://booksite.elsevier.com/9780123820389>

Scientific and Technical Aerospace Reports National Academies Press

This book contains twelve invited lectures from the Third International Symposium on Structural Crashworthiness. Particular emphasis is given to the failure predictions for ductile metal structures under large dynamic loads and to the behaviour of composite and cellular structures.

[NUMISHEET 2005](#) Springer Nature

Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine.

Sheet Metal Industries Cambridge University Press

The rate of growth of stainless steel has outpaced that of other metals and alloys, and by 2010 may surpass aluminum as the second most widely used metal after carbon steel. The 2007 world production of stainless steel was approximately 30,000,000 tons and has nearly doubled in the last ten years. This growth is occurring at the same time that the production of stainless steel continues to become more consolidated. One result of this is a more widespread need to understand stainless steel with fewer resources to provide that information. The concurrent technical evolution in stainless steel and increasing volatility of raw material prices has made it more important for the engineers and designers who use stainless steel to make sound technical judgments about which stainless steels to use and how to use them.