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Synthetic Biology Madan L. Nagpal 2020-02-12 Synthetic biology gives us a new hope because it combines various disciplines, such as genetics, chemistry, biology, molecular sciences, and other disciplines, and gives rise to a novel interdisciplinary science. We can foresee the creation of the new world of vegetation, animals, and humans with the interdisciplinary system of biological sciences. These articles are contributed by renowned experts in their fields. The field of synthetic biology is growing exponentially and opening up new avenues in multidisciplinary approaches by bringing together theoretical and applied aspects of science.

Deep Work Cal Newport 2016-01-05 Read the Wall Street Journal Bestseller for "cultivating intense focus" for fast, powerful performance results for achieving success and true meaning in one's professional life (Adam Grant, author of Give and Take). Deep work is the ability to focus without distraction on a cognitively demanding task. It's a skill that allows you to quickly master complicated information and produce better results in less time. Deep Work will make you better at what you do and provide the sense of true fulfillment that comes from craftsmanship. In short, deep work is like a super power in our increasingly competitive twenty-first century economy. And yet, most people have lost the ability to go deep-spending their days instead in a frantic blur of e-mail and social media, not even realizing there's a better way. In Deep Work, author and professor Cal Newport flips the narrative on impact in a connected age. Instead of arguing distraction is bad, he instead celebrates the power of its opposite. Dividing this book into two parts, he first makes the case that in almost any profession, cultivating a deep work ethic will produce massive benefits. He then presents a rigorous training regimen, presented as a series of four "rules," for transforming your mind and habits to support this skill. 1. Work Deeply 2. Embrace Boredom 3. Quit Social Media 4. Drain the Shallows A mix of cultural criticism and actionable advice, Deep Work takes the reader on a journey through memorable stories-from Carl Jung building a stone tower in the woods to focus his mind, to a social media pioneer buying a round-trip business class ticket to Tokyo to write a book free from distraction in the air-and

no-nonsense advice, such as the claim that most serious professionals should quit social media and that you should practice being bored. Deep Work is an indispensable guide to anyone seeking focused success in a distracted world. An Amazon Best Book of 2016 Pick in Business & Leadership Wall Street Journal Business Bestseller A Business Book of the Week at 800-CEO-READ

Project Procurement Ajay Bhargove 2018-02-05 Project Procurement: A Real-World Guide to Procurement Skills provides insight into the procurement community across sectors and across the globe. Here, the author covers the most widely used techniques and methods for supplier management, including supplier qualification and selection, supplier development, and supplier performance evaluation during different project stages—topics that have rarely been discussed in the procurement community, because they have traditionally been the area of expertise among financial experts. This book will take you through different types of contracts, their selection in particular scenarios, and illustrates them through real-life examples. Accessible and far-reaching in its grasp of various project procurement scenarios, this book is an indispensable reference for procurement professionals making a career in buying, from junior buyers up to the supply-chain heads of organizations.

Machine Tool Design N. K. Mehta 2012

Applying Big Data to Address the Social Determinants of Health in Oncology National Academies of Sciences, Engineering, and Medicine 2020-09-14 The National Academies of Sciences, Engineering, and Medicine held the workshop Applying Big Data to Address the Social Determinants of Health in Oncology on October 28â"29, 2019, in Washington, DC. This workshop examined social determinants of health (SDOH) in the context of cancer, and considered opportunities to effectively leverage big data to improve health equity and reduce disparities. The workshop featured presentations and discussion by experts in technology, oncology, and SDOH, as well as representatives from government, industry, academia, and health care systems. This publication summarizes the presentations and discussions from the workshop.

Journal of Engineering for Industry 1996

International Books in Print 1992

ALE, EDI, & IDoc Technologies for SAP Arvind Nagpal 1999 As a comprehensive book on ALE, this guide is a hands-on approach to using and implementing ALE & EDI technologies with a minimal learning curve. Readers can acquire powerful skills which are valuable to their employers, clients or management.

THE SPEED OF TIME SHARAD NALAWADE 2012-05-26 The Speed of Time is the most unusual book on popular science that you will read. The world you live in is stranger than fictionÁK as you read this, you exist in other places at the same time. Do not regret having missed the chance to realize your dreams, for you may just have fulfilled it in another universe.. * Are the trillions of atoms that make you, nothing but vibrations in 10 dimensions? *Is it true that we are all connected with each other? *Can you go into the future to change the present? * Why do scientists and philosophers struggle with the concept of Time? * Can science explain consciousness through physics? * Is our fate driven by the underlying randomness in nature? * Is nature hiding the best kept secrets which can never be unravelled by humans? The Speed of Time approaches the most complex and esoteric theories of science in lucid, clear and simple language and in the style of a thriller, leaving you wanting moreÁK while addressing questions through the enigmatic theories in Physics such as Quantum Mechanics, EinsteinÁ?s Theory of Relativity, Time, Chaos, and much more. Just start reading and you will not put it down.

Crossing the Global Quality Chasm National Academies of Sciences, Engineering, and Medicine 2019-01-27 In 2015, building on the advances of the Millennium Development Goals, the United Nations adopted Sustainable Development Goals that include an explicit commitment to achieve universal health coverage by 2030. However, enormous gaps remain between what is achievable in human health and where global health stands today, and progress has been both incomplete and unevenly distributed. In order to meet this goal, a deliberate and comprehensive effort is needed to improve the quality of health care services globally. Crossing the Global Quality Chasm: Improving Health Care Worldwide focuses on one particular shortfall in health care affecting global populations: defects in the quality of care. This study reviews the available evidence on the quality of care worldwide and makes recommendations to improve health care quality globally while expanding access to preventive and therapeutic services, with a focus in low-resource areas. Crossing the Global Quality Chasm emphasizes the organization and delivery of safe and effective care at the patient/provider interface. This study explores issues of access to services and commodities, effectiveness, safety, efficiency, and equity. Focusing on front line service delivery that can directly impact health outcomes for individuals and populations, this book will be an essential guide for key stakeholders, governments,

donors, health systems, and others involved in health care.

Basic Mechanical Engineering T. S. Rajan 2007-01-01 The Book Provides A Glimpse Of The Fascinating Field Of Mechanical Engineering To The Entrants To Engineering Colleges.It Gives An Insight Into The Major Areas Of Mechanical Engineering, Like Power Production, Energy Alternatives, Production Alternatives And The Latest Computer Controlled Machine Tools.The Book Is Made Interesting With Numerous Sketches And Schematics - A Definite Advantage In Understanding The Subject.

Current Programs 1975

Applied Metal Forming Henry S. Valberg 2010-03-31 Applied Metal Forming: Including FEM Analysis describes metal forming theory and how experimental techniques can be used to study any metal forming operation with great accuracy. For each primary class of processes, such as forging, rolling, extrusion, wiredrawing, and sheet-metal forming, it explains how FEA (Finite Element Analysis) can be applied with great precision to characterize the forming condition and in this way optimize the processes. FEA has made it possible to build very realistic FEM-models of any metal forming process, including complex three-dimensional forming operations, in which complex products are shaped by complex dies. Thus, using FEA it is now possible to visualize any metal forming process and to study strain, stresses, and other forming conditions inside the parts being manufactured as they develop throughout the process.

Handbook of Vitamins Janos Zempleni 2013-07-29 Within the last few years, knowledge about vitamins has increased dramatically, resulting in improved understanding of human requirements for many vitamins. This new edition of a bestseller presents comprehensive summaries that analyze the chemical, physiological, and nutritional relationships, as well as highlight newly identified functions, for a

Polymeric Materials Marta Fernández-García 2019-05-28 This book collects the articles published in the Special Issue "Polymeric Materials: Surfaces, Interfaces and Bioapplications". It shows the advances in polymeric materials, which have tremendous applications in agricultural films, food packaging, dental restoration, antimicrobial systems, and tissue engineering. These polymeric materials are presented as films, coatings, particles, fibers, hydrogels, or networks. The potential to modify and modulate their surfaces or their content by different techniques, such as click chemistry, ozonation, breath figures, wrinkle formation, or electrospray, are also explained, taking into account the relationship between the structure and properties in the final application. Moreover, new trends in the development of such materials are presented, using more environmental friendly and safe methods, which, at the same time, have a high impact on our society.

Beginning Java 8 Language Features Kishori Sharan 2014-08-18 Beginning Java 8 Language Features covers essential and advanced features of the Java programming language such as the new lambda

expressions (closures), inner classes, threads, I/O, Collections, garbage collection, streams, and more. Author Kishori Sharan provides over 60 diagrams and 290 complete programs to help you visualize and better understand the topics covered in this book. The book starts with a series of chapters on the essential language features provided by Java, including annotations, inner classes, reflection, and generics. These topics are then complemented by details of how to use lambda expressions, allowing you to build powerful and efficient Java programs. The chapter on threads follows this up and discusses everything from the very basic concepts of a thread to the most advanced topics such as synchronizers, the fork/join framework, and atomic variables. This book contains unmatched coverage of Java I/O, including NIO 2.0, the Path API, the FileVisitor API, the watch service and asynchronous file I/O. With this in-depth knowledge, your data- and file-management programs will be able to take advantage of every feature of Java's powerful I/O framework. Finally, you'll learn how to use the Stream API, a new, exciting addition to Java 8, to perform aggregate operations on collections of data elements using functional-style programming. You'll examine the details of stream processing such as creating streams from different data sources, learning the difference between sequential and parallel streams, applying the filter-map-reduce pattern, and dealing with optional values.

Linear Control Systems With Matlab Applications B S Manke 2005

Press Tools (Design And Construction) Prakash Hiralal Joshi 2008-01-01

India's New Capitalists H. Damodaran 2008-06-25 In order to do business effectively in contemporary South Asia, it is necessary to understand the culture, the ethos, and the region's new trading communities. In tracing the modern-day evolution of business communities in India, this book uses social history to systematically document and understand India's new entrepreneurial groups.

Machine Tool Design Handbook Central Machine Tool Institute 1991

Catalyzing Inquiry at the Interface of Computing and Biology National Research Council 2006-01-01 Advances in computer science and technology and in biology over the last several years have opened up the possibility for computing to help answer fundamental questions in biology and for biology to help with new approaches to computing. Making the most of the research opportunities at the interface of computing and biology requires the active participation of people from both fields. While past attempts have been made in this direction, circumstances today appear to be much more favorable for progress. To help take advantage of these opportunities, this study was requested of the NRC by the National Science Foundation, the Department of Defense, the National Institutes of Health, and the Department of Energy. The report provides the basis for establishing cross-disciplinary collaboration between biology and computing including an analysis of potential impediments and strategies for overcoming them. The report also presents a wealth of examples that should encourage students in the biological sciences to look for ways to enable them to be more effective users of computing in their studies.

Managing aquifer recharge UNESCO 2021-11-25

Power Plant Engineering G. R. Nagpal 2008

Tool Design Cyril Donaldson 1976

Autonomous Horizons Greg Zacharias 2019-04-05 Dr. Greg Zacharias, former Chief Scientist of the United States Air Force (2015-18), explores next steps in autonomous systems (AS) development, fielding, and training. Rapid advances in AS development and artificial intelligence (AI) research will change how we think about machines, whether they are individual vehicle platforms or networked enterprises. The payoff will be considerable, affording the US military significant protection for aviators, greater effectiveness in employment, and unlimited opportunities for novel and disruptive concepts of operations. Autonomous Horizons: The Way Forward identifies issues and makes recommendations for the Air Force to take full advantage of this transformational technology.

Design and Control of Self-organizing Systems Carlos Gershenson 2007-09-05 Complex systems are usually difficult to design and control. There are several particular methods for coping with complexity, but there is no general approach to build complex systems. In this book I propose a methodology to aid engineers in the design and control of complex systems. This is based on the description of systems as self-organizing. Starting from the agent metaphor, the methodology proposes a conceptual framework and a series of steps to follow to find proper mechanisms that will promote elements to find solutions by actively interacting among themselves.

Fundamentals of Tool Design, Fifth Edition Jeff Lantrip 2003-12-08 The creation of a Fifth Edition is proof of the continuing vitality of the book's contents, including: tool design and materials; jigs and fixtures; workholding principles; die manipulation; inspection, gaging, and tolerances; computer hardware and software and their applications; joining processes; and pressworking tool design. To stay abreast of the newer developments in design and manufacturing, every effort has been made to include those technologies that are currently finding applications in tool engineering. For example, sections on rapid prototyping, hydroforming, and simulation have been added or enhanced. The basic principles and methods discussed in Fundamentals of Tool Design can be used by both students and professionals for designing efficient tools.

Clinical Practice Guidelines We Can Trust Institute of Medicine 2011-06-16 Advances in medical, biomedical and health services research have reduced the level of uncertainty in clinical practice. Clinical practice guidelines (CPGs) complement this progress by establishing standards of care backed by strong scientific

evidence. CPGs are statements that include recommendations intended to optimize patient care. These statements are informed by a systematic review of evidence and an assessment of the benefits and costs of alternative care options. Clinical Practice Guidelines We Can Trust examines the current state of clinical practice guidelines and how they can be improved to enhance healthcare quality and patient outcomes. Clinical practice guidelines now are ubiquitous in our healthcare system. The Guidelines International Network (GIN) database currently lists more than 3,700 guidelines from 39 countries. Developing guidelines presents a number of challenges including lack of transparent methodological practices, difficulty reconciling conflicting guidelines, and conflicts of interest. Clinical Practice Guidelines We Can Trust explores questions surrounding the quality of CPG development processes and the establishment of standards. It proposes eight standards for developing trustworthy clinical practice guidelines emphasizing transparency; management of conflict of interest ; systematic review--guideline development intersection; establishing evidence foundations for and rating strength of guideline recommendations; articulation of recommendations; external review; and updating. Clinical Practice Guidelines We Can Trust shows how clinical practice guidelines can enhance clinician and patient decision-making by translating complex scientific research findings into recommendations for clinical practice that are relevant to the individual patient encounter, instead of implementing a one size fits all approach to patient care. This book contains information directly related to the work of the Agency for Healthcare Research and Quality (AHRQ), as well as various Congressional staff and policymakers. It is a vital resource for medical specialty societies, disease advocacy groups, health professionals, private and international organizations that develop or use clinical practice guidelines, consumers, clinicians, and payers.

Advances in Structural Engineering Vasant Matsagar 2014-12-12 The book presents research papers presented by academicians, researchers, and practicing structural engineers from India and abroad in the recently held Structural Engineering Convention (SEC) 2014 at Indian Institute of Technology Delhi during 22 – 24 December 2014. The book is divided into three volumes and encompasses multidisciplinary areas within structural engineering, such as earthquake engineering and structural dynamics, structural mechanics, finite element methods, structural vibration control, advanced cementitious and composite materials, bridge engineering, and soil-structure interaction. Advances in Structural Engineering is a useful reference material for structural engineering fraternity including undergraduate and postgraduate students, academicians, researchers and practicing engineers.

Cold and Hot Forging Taylan Altan 2005 Editors Altan (Ohio State University), Ngaile (North Carolina University), and Shen (Ladish Company, Inc.) offer this extensive overview of the latest developments in the design of forging operations and dies. Basic technological principles are briefly reviewed in the first two chapters.

Construction Robots: Volume 3 Thomas Bock 2016-10-24 Learn how Single-Task Construction Robots (STCRs) can improve productivity in the construction industry with this cross-disciplinary text. This third volume in The Cambridge Handbooks in Construction Robotics series discusses the STCRs employed on construction sites since the development of the approach in the 1980s, presents current applications, and highlights upcoming trends in the construction automation and robotics field. Two hundred different types of STCR are presented, from the simplest models comprising simple manipulators and mobile platforms, to those utilizing more sophisticated technologies such as aerial robotics, swarm robotics, exoskeletons, additive manufacturing technologies, self-assembling building structures, and humanoid robotics. Real-world case studies demonstrate the different application scenarios for each approach, and highlight the key implementation and management issues. With an easy-to-follow structure, and including hundreds of color illustrations, it provides an excellent toolkit for professional engineers, researchers, and students.

Complex Engineered Systems Dan Braha 2007-06-24 This book sheds light on the large-scale engineering systems that shape and guide our everyday lives. It does this by bringing together the latest research and practice defining the emerging field of Complex Engineered Systems. Understanding, designing, building and controlling such complex systems is going to be a central challenge for engineers in the coming decades. This book is a step toward addressing that challenge.

Jig and Fixture Design Edward Hoffman 2012-08-01 By emphasizing similarities among types and styles, Jig and Fixture Design, 5E speeds readers to a complete understanding of the why's and how's of designing and building a variety of different workholders for manufacturing. From simple template and plate-type jigs to complex channel and box-type tooling, this newly revised edition features more than 500 illustrations of tools and applications to spur readers to success. All-new sections on assembly tools, handling tools, and catalog reading enable readers to develop important skills. Specific examples of various jigs and commercially available fixtures also appear to guide readers in developing their understanding of how design principles, as well as the latest design and manufacturing technologies, are being applied in the construction of jigs and fixtures today. As in past editions, heavy emphasis is placed on the economics of jigs and fixtures, including methods and formulas for use in estimating workholder costs. A solid background in industrial processes, as well as machine shop technology, is assumed. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Industrial Engineering And Management O. P. Khanna 1980

SynDEVS Co-Design Flow H. Gregor Molter 2012-10-21 The complexity of modern embedded systems has

increased rapidly in the recent past. Introducing models of computation into the design flow has significantly raised the abstraction in system level design of embedded systems. Establishing such high abstraction levels in common hardware /software co-design flows is still in its infancy. H. Gregor Molter develops a hardware / software co-design flow based on the Discrete Event System Specification model of computation. He advocates that such a system level design flow should exploit a timed model of computation to allow a broad application field. The presented design flow will transform timed DEVS models to both synthesizable VHDL source code and embeddable C++ source code.

Basic Mechanical Engineering Rajput 2002

Tool Engineering: Jigs and Fixtures; Albert Atkins Dowd 2018-02-02 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 was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. 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. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Decision Making in Manufacturing Environment Using Graph Theory and Fuzzy Multiple Attribute Decision Making Methods R. Venkata Rao 2012-08-27 Decision Making in Manufacturing Environment Using Graph Theory and Fuzzy Multiple Attribute Decision Making Methods presents the concepts and details of applications of MADM methods. A range of methods are covered including Analytic Hierarchy Process (AHP), Technique for Order Preference by Similarity to Ideal Solution (TOPSIS), VIšekriterijumsko KOmpromisno Rangiranje (VIKOR), Data Envelopment Analysis (DEA), Preference Ranking METHod for Enrichment Evaluations (PROMETHEE), ELimination Et Choix Traduisant la Realité (ELECTRE), COmplex PRoportional ASsessment (COPRAS), Grey Relational Analysis (GRA), UTility Additive (UTA), and Ordered Weighted Averaging (OWA). The existing MADM methods are improved upon and three novel multiple attribute decision making methods for solving the decision making problems of the manufacturing environment are proposed. The concept of integrated weights is introduced in the proposed subjective and objective integrated weights (SOIW) method and the weighted Euclidean distance based approach (WEDBA) to consider both the decision maker's subjective preferences as well as the distribution of the attributes data of the decision matrix. These methods, which use fuzzy logic to convert the qualitative attributes into the quantitative attributes, are supported by various real-world application examples. Also, computer codes for AHP, TOPSIS, DEA, PROMETHEE, ELECTRE, COPRAS, and SOIW methods are included. This comprehensive coverage makes Decision Making in Manufacturing Environment Using Graph Theory and Fuzzy Multiple Attribute Decision Making Methods a key reference for the designers, manufacturing engineers, practitioners, managers, institutes involved in both design and manufacturing related projects. It is also an ideal study resource for applied research workers, academicians, and students in mechanical and industrial engineering.

Fundamentals of Nuclear Science and Engineering Second Edition J. Kenneth Shultis 2007-09-07 Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation.An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition— A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion reactions and devices, and nuclear technology in medical diagnostics and treatment. In addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of Fundamentals of Nuclear Science and Engineering is a key reference for any physicists or engineer.

Machine Design 1975