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Introduction to Information Retrieval Springer
This book presents selected papers from the International Conference on Advances in Materials Processing and Manufacturing Applications (iCADMA 2020), held on November 5–6, 2020, at Malaviya National Institute of Technology, Jaipur, India. iCADMA 2020 proceedings is divided into four topical tracks – Advanced Materials, Materials Manufacturing and Processing, Engineering Optimization and Sustainable Development, and Tribology for Industrial Application.

Evolutionary Systems Development John Wiley & Sons
Appropriate for Computer Networking or Introduction to Networking courses at both the undergraduate and graduate level in Computer Science, Electrical Engineering, CIS, MIS, and Business Departments. Tanenbaum takes a structured approach to explaining how networks work from the inside out. He starts with an explanation of the physical layer of networking, computer hardware and transmission systems; then works his way up to network applications. Tanenbaum's in-depth application coverage includes email; the domain name system; the World Wide Web (both client- and server-side); and multimedia (including voice over IP, Internet radio video on demand, video conferencing, and streaming media.

Wireless Communications and Networks MIT Press
A comprehensive playbook for applied design thinking inbusiness and management, complete with concepts andtoolkits
As many companies have lost confidence in the traditional waysof running a business, design thinking has entered the mix.Design Thinking for Strategic Innovation presents aframework for design thinking that is relevant to businessmanagement, marketing, and design strategies and also provides atoolkit to apply concepts for immediate use in everyday work. Itexplains how design thinking can bring about creative solutions tosolve complex business problems. Organized into five sections, thisbook provides an introduction to the values and applications ofdesign thinking, explains design thinking approaches for eight keychallenges that most businesses face, and offers an applicationframework for these business challenges through exercises,activities, and resources. An essential guide for any business seeking to use designthinking as a problem-solving tool as well as a business method totransform companies and cultures The framework is based on work developed by the author for anexecutive program in Design Thinking taught in Harvard GraduateSchool of Design Author Idris Mootee is a management guru and a leading experton applied design thinking Revolutionize your approach to solving your business's greatestchallenges through the power of Design Thinking for StrategicInnovation.

Cloud Computing ASM International
Modern Machining Processes presents unconventional machining methods which are gradually commercial acceptance. All aspects of mechanical, electrochemical and thermal processes are comprehensively covered.Processes likeAbrasive Jet Machining Water Jet MachiningLaser Beam

MachiningHot MachiningPlasma Arc Machininghave also been included. It gives a balanced account of both theory and applications, contains illustrative exercises and an extensive up-to-date bibliography. The book should be useful to students of production and mechanical engineering, as well as practising engineers.

A Cyber-Physical Systems Approach John Wiley & Sons
Readers gain a clear understanding of engineering design as ENGINEERING DESIGN PROCESS, 3E outlines the process into five basic stages -- requirements, product concept, solution concept, embodiment design and detailed design. Designers discover how these five stages can be seamlessly integrated. The book illustrates how the design methods can work together coherently, while the book ' s supporting exercises and labs help learners navigate the design process. The text leads the beginner designer from the basics of design with very simple tasks -- the first lab involves designing a sandwich -- all the way through more complex design needs. This effective approach to the design model equips learners with the skills to apply engineering design concepts both to conventional engineering problems as well as other design problems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. **3D Printing, Rapid Prototyping, and Direct Digital Manufacturing Longman Publishing Group**
Rapid prototyping, tooling, and manufacturing are now established and recognised techniques for the design, testing and manufacture of products ranging from engine components to knee prostheses. This volume analyses the developments being made in these areas.

Metal Additive Manufacturing Cengage Learning Emea
Hailed as a groundbreaking and important textbook upon its initial publication, the latest iteration of Product Design for Manufacture and Assembly does not rest on those laurels. In addition to the expected updating of data in all chapters, this third edition has been revised to provide a top-notch textbook for university-level courses in product **Manufacturing Process Cambridge University Press**
Wind energy ' s bestselling textbook- fully revised. This must-have second edition includes up-to-date data, diagrams, illustrations and thorough new material on: the fundamentals of wind turbine aerodynamics; wind turbine testing and modelling; wind turbine design standards; offshore wind energy; special purpose applications, such as energy storage and fuel production. Fifty additional homework problems and a new appendix on data processing make this comprehensive edition perfect for engineering students. This book offers a complete examination of one of the most promising sources of renewable energy and is a great introduction to this cross-disciplinary field for practising engineers. “ provides a wealth of information and is an excellent reference book for people interested in the subject of wind energy. ” (IEEE Power & Energy Magazine, November /December 2003) “ deserves a place in the library of every university and college where renewable energy is taught. ” (The International Journal of Electrical Engineering Education, Vol.41, No.2 April 2004) “ a very comprehensive and well-organized treatment of the current status of wind power. ” (Choice, Vol. 40, No. 4, December 2002)

Engineering Metrology and Measurements BoD – Books on Demand
This book covers in detail the various aspects of joining materials to form parts. A conceptual overview of rapid prototyping and layered manufacturing is given, beginning with the fundamentals so that readers can get up to speed quickly. Unusual and emerging applications such as micro-scale manufacturing, medical applications, aerospace, and rapid manufacturing are also discussed. This book provides a comprehensive overview of rapid prototyping technologies as well as support technologies such as software systems, vacuum casting, investment casting, plating, infiltration and other systems. This book also: Reflects recent developments and trends and adheres to the ASTM, SI, and other standards Includes chapters on automotive technology, aerospace technology and low-cost AM technologies Provides a broad range of technical questions to ensure comprehensive understanding of the concepts covered **Embedded System Design Springer Science & Business Media**
The purpose of this book is to provide engineers and researchers in both the wind power industry and energy research community with comprehensive, up-to-date, and advanced design techniques and practical approaches. The topics addressed in this book involve the major concerns in the wind power generation and wind turbine design. **Design and Development Methodologies Newnes**

The purpose of this book is to provide a detailed understanding of the evolutionary approach to the development of computerized information systems. It does this by describing the principles of evolutionary development and showing how they relate to the more traditional approaches to

systems analysis and design. **Solving Problems with Design Thinking Wiley**
Effective from 2008-09 session, U.P.T.U. has introduced the subject of manufacturing processes for first year engineering students of all streams. This textbook covers the entire course material in a distilled form. **Future-Oriented Technology Analysis John Wiley & Sons**
More quality, more flexibility, and less costs seem to be the key to meeting the demands of the global marketplace. The secret to success in this arena lies in the expert execution of the critical tasks in the product definition stage. Prototyping is an essential part of this stage, yet can be very expensive. It must be planned well and use state-o **Rapid Prototyping, Tooling and Manufacturing Springer**
Presenting unified coverage of the design and modeling of smart micro- and macrosystems, this book addresses fabrication issues and outlines the challenges faced by engineers working with smart sensors in a variety of applications. Part I deals with the fundamental concepts of a typical smart system and its constituent components. Preliminary fabrication and characterization concepts are introduced before design principles are discussed in detail. Part III presents a comprehensive account of the modeling of smart systems, smart sensors and actuators. Part IV builds upon the fundamental concepts to analyze fabrication techniques for silicon-based MEMS in more detail. Practicing engineers will benefit from the detailed assessment of applications in communications technology, aerospace, biomedical and mechanical engineering. The book provides an essential reference or textbook for graduates following a course in smart sensors, actuators and systems.

Computer Networks Cengage Learning
Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures. **The Design of Business Harvard Business Press**
Engineering Metrology and Measurements is a textbook designed for students of mechanical, production and allied disciplines to facilitate learning of various shop-floor measurement techniques and also understand the basics of mechanical measurements.

Fatigue and Fracture Springer Nature
Since the publication of the first edition in 1982, the goal of Simulation Modeling and Analysis has always been to provide a comprehensive, state-of-the-art, and technically correct treatment of all important aspects of a simulation study. The book strives to make this material understandable by the use of intuition and numerous figures, examples, and problems. It is equally well suited for use in university courses, simulation practice, and self study. The book is widely regarded as the "bible" of simulation and now has more than 100,000 copies in print. The book can serve as the primary text for a variety of courses; for example: *A first course in simulation at the junior, senior, or beginning-graduate-student level in engineering, manufacturing, business, or computer science (Chaps. 1 through 4, and parts of Chaps. 5 through 9). At the end of such a course, the students will be prepared to carry out complete and effective simulation studies, and to take advanced simulation courses. *A second course in simulation for graduate students in any of the above disciplines (most of Chaps. 5 through 12). After completing this course, the student should be familiar with the more advanced methodological issues involved in a simulation study, and should be prepared to understand and conduct simulation research. *An introduction to simulation as part of a general course in operations research or management science (part of Chaps. 1, 3, 5, 6, and 9).

Modern Electric, Hybrid Electric, and Fuel Cell Vehicles, Third Edition John Wiley & Sons
Additive Manufacturing Technologies3D Printing, Rapid Prototyping, and Direct Digital ManufacturingSpringer
Technology, Protocols, and Applications Springer Nature
This book provides a thorough overview of the applications of 3D printing technologies to ubiquitous manufacturing (UM). UM itself represents an application of ubiquitous computing in the manufacturing sector, and this book reveals how it offers convenient, on-demand network access to a shared pool of

configurable manufacturing resources, including software tools, equipment, and capabilities. Given its scope, the book will be of considerable interest to researchers in the areas of manufacturing, mechanical engineering, operations management, production control, ubiquitous computing, and sensor technologies, as well as practicing managers and engineers.

Micro and Smart Systems: Technology and Modeling Additive Manufacturing Technologies3D Printing, Rapid Prototyping, and Direct Digital Manufacturing

This textbook covers in detail digitally-driven methods for adding materials together to form parts. A conceptual overview of additive manufacturing is given, beginning with the fundamentals so that readers can get up to speed quickly. Well-established and emerging applications such as rapid prototyping, micro-scale manufacturing, medical applications, aerospace manufacturing, rapid tooling and direct digital manufacturing are also discussed. This book provides a comprehensive overview of additive manufacturing technologies as well as relevant supporting technologies such as software systems, vacuum casting, investment casting, plating, infiltration and other systems. Reflects recent developments and trends and adheres to the ASTM, SI and other standards; Includes chapters on topics that span the entire AM value chain, including process selection, software, post-processing, industrial drivers for AM, and more; Provides a broad range of technical questions to ensure comprehensive understanding of the concepts covered.