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Additive Manufacturing - Amit Bandyopadhyay
2015-09-08

The field of additive manufacturing has seen explosive growth in recent years due largely in part to renewed interest from the manufacturing sector. Conceptually, additive manufacturing, or industrial 3D printing, is a way to build parts without using any part-specific tooling or dies from the computer-aided design (CAD) file of the part. Today, mo

Manufacturing Technology - II - Dr. R.Kesavan
2006

Chemoinformatics and Bioinformatics in the Pharmaceutical Sciences - Navneet Sharma 2021-05-21

Chemoinformatics and Bioinformatics in the Pharmaceutical Sciences brings together two very important fields in pharmaceutical sciences that have been mostly seen as diverging from each other: chemoinformatics and bioinformatics. As developing drugs is an expensive and lengthy process, technology can improve the cost, efficiency and speed at which new drugs can be discovered and tested. This book presents some of the growing advancements of technology in the field of drug development and how the computational approaches explained here can reduce the financial and experimental burden of the drug discovery process. This book will be useful to pharmaceutical science researchers and students who need basic knowledge of computational techniques relevant to their projects. Bioscientists, bioinformaticians, computational scientists, and other stakeholders from industry and academia will also find this book helpful. Provides practical information on

how to choose and use appropriate computational tools Presents the wide, intersecting fields of chemo-bio-informatics in an easily-accessible format Explores the fundamentals of the emerging field of chemoinformatics and bioinformatics

Advances in Engineering Design - Pawan Kumar Rakesh 2021-02-04

This book presents the selected peer-reviewed proceedings of the International Conference on Innovative Engineering Design (ICOIED 2020). The contents provide a multidisciplinary approach for the development of innovative product design and their benefits for the society. The book presents latest advances in various fields like design process, service development, micro/nano technology, sensors and MEMS, and sustainability in engineering design. This book can be useful for students, researchers, and professionals interested in innovative product/process design and development.

Advances in Management Research - Avinash K. Shrivastava 2019-11-18

This book covers advancements across business domains in knowledge and information management. It presents research trends in the fields of management, innovation, and technology, and is composed of research papers that show applications of IT, analytics, and business operations in industry and in educational institutions. It offers a combination of scientific research methods and concepts, with contributions from globally renowned authors; presents various management domains from a number of countries for a global perspective; and provides a unique combination of topics and methods while giving insights on the management domain using a holistic

approach. The book provides scholars with a platform to derive maximum utility in the area of management, research, and technology by subscribing to the idea of managing business through performance and management technology.

The Everyday Hero Manifesto - Robin Sharma
2021-09-15

For over twenty-five years, leadership legend and personal-mastery path-blazer Robin Sharma has mentored billionaires, business titans, professional-sports superstars and entertainment royalty via a revolutionary methodology that led them to accomplish rare-air results. Now, in this groundbreaking book, Sharma makes his transformational system available to anyone who is ready for undefeatable positivity, monumental productivity, deep spiritual freedom and a life of helping others. In *The Everyday Hero Manifesto* you will discover:

- The hidden habits used by many of the world's most creative and successful people to realize their visionary ambitions
- Original techniques to turn fear into fuel, problems into power and past troubles into triumphs
- A breakthrough blueprint to battle-proof yourself against distraction and procrastination so that you produce magic that dominates your domain
- Pioneering insights on adopting world-class routines that will lead you to achieve superhuman fitness and become the most disciplined person you know
- Unusual wisdom to operate with far more simplicity, beauty and peace

Part memoir of a life richly lived, part instruction manual for virtuoso-grade performance, and part handbook for spiritual freedom in an age of high-velocity change, *The Everyday Hero Manifesto* will completely transform your life. Forever. ROBIN SHARMA is a humanitarian who has devoted his life to helping people express their highest natural gifts. He is widely regarded as one of the top leadership and personal-mastery experts in the world. His clients include NASA, Microsoft, NIKE, Unilever, GE, FedEx, HP, Starbucks, Oracle, Yale University, PwC, IBM Watson and the Young Presidents' Organization. His #1 international bestsellers, such as *The 5 AM Club*, *The Monk Who Sold His Ferrari*, *The Greatness Guide* and *Who Will Cry When You Die?*, have sold millions of copies in over ninety-two

languages, making him one of the most widely read authors on the planet.

Logistics 4.0 - Turan Paksoy 2020-12-18

Industrial revolutions have impacted both, manufacturing and service. From the steam engine to digital automated production, the industrial revolutions have conducted significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems have led to phenomenal improvements in productivity. The fast-paced environment brings new challenges and opportunities for the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial Revolution 4.0 initiatives in SCM has attracted stakeholders' attentions due to its ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been called Logistics 4.0 of the fourth Industrial Revolution in SCM due to its high potential. Connecting entities, machines, physical items and enterprise resources to each other by using sensors, devices and the internet along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system's ability of gathering and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM processes. In this peer-reviewed book, experts from all over the world, in the field present a conceptual framework for Logistics 4.0 and provide examples for usage of Industry 4.0 tools in SCM. This book is a work that will be beneficial for both practitioners and students and academicians, as it covers the theoretical framework, on the one hand, and includes examples of practice and real world.

Food Process Engineering and Technology -

Zeki Berk 2018-02-13

Food Process Engineering and Technology, Third Edition combines scientific depth with

practical usefulness, creating a tool for graduate students and practicing food engineers, technologists and researchers looking for the latest information on transformation and preservation processes and process control and plant hygiene topics. This fully updated edition provides recent research and developments in the area, features sections on elements of food plant design, an introductory section on the elements of classical fluid mechanics, a section on non-thermal processes, and recent technologies, such as freeze concentration, osmotic dehydration, and active packaging that are discussed in detail. Provides a strong emphasis on the relationship between engineering and product quality/safety
Considers cost and environmental factors
Presents a fully updated, adequate review of recent research and developments in the area
Includes a new, full chapter on elements of food plant design
Covers recent technologies, such as freeze concentration, osmotic dehydration, and active packaging that are discussed in detail

A Text-book of Production Engineering - Pramod C. Sharma 1993

Overview of Industrial Process Automation - K.L.S. Sharma 2011-08-19

Man-made or industrial processes, localised or geographically distributed, need be automated in order to ensure they produce quality, consistent, and cost-effective goods or services. Automation systems for these processes broadly consist of instrumentation, control, human interface, and communication subsystems. This book introduces the basics of philosophy, technology, terminology, and practices of modern automation systems with simple illustrations and examples. Provides an introduction to automation
Explains the concepts through simple illustrations and examples
Describes how to understand technical documents

Advances in Systems Engineering - V. H. Saran 2021-01-23

This book comprises select proceedings of the 43rd National Systems Conference on Innovative and Emerging Trends in Engineering Systems (NSC 2019) held at the Indian Institute of Technology, Roorkee, India. The contents cover latest research in the highly multidisciplinary

field of systems engineering, and discusses its various aspects like systems design, dynamics, analysis, modeling and simulation. Some of the topics covered include computing systems, consciousness systems, electrical systems, energy systems, manufacturing systems, mechanical systems, literary systems, social systems, and quantum and nano systems. Given the scope of the contents, this book will be useful for researchers and professionals from diverse engineering and management background.

Composite Materials - Sumit Sharma 2021-03-11

Composite materials find diverse applications in areas including aerospace, automotive, architecture, energy, marine and military. This comprehensive textbook discusses three important aspects including manufacturing, mechanics and dynamic mechanical analysis of composites. The textbook comprehensively presents fundamental concepts of composites, manufacturing techniques and advanced topics including as advances in composite materials in various fields, viscoelastic behavior of composites, toughness of composites and Nano mechanics of composites in a single volume. Topics such as polymer matrix composites, metal matrix composites, ceramic matrix composites, micromechanical behavior of a lamina, micromechanics and nanomechanics are discussed in detail. Aimed at senior undergraduate and graduate students for a course on composite materials in the fields of mechanical engineering, automobile engineering and electronics engineering, this book:
Discusses mechanics and manufacturing techniques of composite materials in a single volume. Explains viscoelastic behavior of composites in a comprehensive manner. Covers fatigue, creep and effect of thermal stresses on composites. Discusses concepts including bending, buckling and vibration of laminated plates in detail. Explains dynamic mechanical analysis (DMA) of composites.

Introduction to Basic Manufacturing Processes and Workshop Technology - Rajender Singh 2006-12

Manufacturing and workshop practices have become important in the industrial environment to produce products for the service of mankind.

The basic need is to provide theoretical and practical knowledge of manufacturing processes and workshop technology to all the engineering students. This book covers most of the syllabus of manufacturing processes/technology, workshop technology and workshop practices for engineering (diploma and degree) classes prescribed by different universities and state technical boards.

Business Process Transformation - Chitra Sharma 2015-05-19

This book presents a framework through transformation and explains how business goals can be translated into realistic plans that are tangible and yield real results in terms of the top line and the bottom line. Process Transformation is like a tangram puzzle, which has multiple solutions yet is essentially composed of seven 'tans' that hold it together. Based on practical experience and intensive research into existing material, 'Process Tangram' is a simple yet powerful framework that proposes Process Transformation as a program. The seven 'tans' are: the transformation program itself, triggers, goals, tools and techniques, culture, communication and success factors. With its segregation into tans and division into core elements, this framework makes it possible to use 'pick and choose' to quickly and easily map an organization's specific requirements. Change management and process modeling are covered in detail. In addition, the book approaches managed services as a model of service delivery, which it explores as a case of process transformation. This book will appeal to anyone engaged in business process transformation, be it business process management professionals, change managers, sponsors, program managers or line managers. The book starts with the basics, making it suitable even for students who want to make a career in business process management.

Overview of Industrial Process Automation - K.L.S. Sharma 2016-10-25

Overview of Industrial Process Automation, Second Edition, introduces the basics of philosophy, technology, terminology, and practices of modern automation systems through the presentation of updated examples, illustrations, case studies, and images. This updated edition adds new developments in the

automation domain, and its reorganization of chapters and appendixes provides better continuity and seamless knowledge transfer. Manufacturing and chemical engineers involved in factory and process automation, and students studying industrial automation will find this book to be a great, comprehensive resource for further explanation and study. Presents a ready made reference that introduces all aspects of automation technology in a single place with day-to-day examples Provides a basic platform for the understanding of industry literature on automation products, systems, and solutions Contains a guided tour of the subject without the requirement of any previous knowledge on automation Includes new topics, such as factory and process automation, IT/OT Integration, ISA 95, Industry 4.0, IoT, etc., along with safety systems in process plants and machines
Colloid and Interface Science in Pharmaceutical Research and Development - Hiroyuki Ohshima 2014-07-23

Colloid and Interface Science in Pharmaceutical Research and Development describes the role of colloid and surface chemistry in the pharmaceutical sciences. It gives a detailed account of colloid theory, and explains physicochemical properties of the colloidal-pharmaceutical systems, and the methods for their measurement. The book starts with fundamentals in Part I, covering fundamental aspects of colloid and interface sciences as applied to pharmaceutical sciences and thus should be suitable for teaching. Parts II and III treat applications and measurements, and they explain the application of these properties and their influence and use for the development of new drugs. Provides a clear description of the fundamentals of colloid and interface science relevant to drug research and development Explains the physicochemical/colloidal basis of pharmaceutical science Lists modern experimental characterization techniques, provides analytical equations and explanations on analyzing the experimental data Describes the most advanced techniques, AFM (Atomic Force Microscopy), SFA (Surface Force Apparatus) in detail
Potato Biology and Biotechnology - Dick Vreugdenhil 2011-08-31
In the past 15-20 years major discoveries have

been concluded on potato biology and biotechnology. Important new tools have been developed in the area of molecular genetics, and our understanding of potato physiology has been revolutionized due to amenability of the potato to genetic transformation. This technology has impacted our understanding of the molecular basis of plant-pathogen interaction and has also opened new opportunities for the use of the potato in a variety of non-food biotechnological purposes. This book covers the potato world market as it expands further into the new millennium. Authors stress the overriding need for stable yields to eliminate human hunger and poverty, while considering solutions to enhance global production and distribution. It comprehensively describes genetics and genetic resources, plant growth and development, response to the environment, tuber quality, pests and diseases, biotechnology and crop management. Potato Biology is the most valuable reference available for all professionals involved in the potato industry, plant biologists and agronomists. Offers an understanding of the social, economic and market factors that influence production and distribution Discusses developments and useful traits in transgenic biology and genetic engineering The first reference entirely devoted to understanding new advances in potato biology and biotechnology

Machine Drawing - K. L. Narayana 2009-06-30
About the Book: Written by three distinguished authors with ample academic and teaching experience, this textbook, meant for diploma and degree students of Mechanical Engineering as well as those preparing for AMIE examination, incorporates the latest st

WIREFRAMED - Vivek Sharma 2020-09

Food Processing Technology - P J Fellows
2009-06-22

The first edition of Food processing technology was quickly adopted as the standard text by many food science and technology courses. This completely revised and updated third edition consolidates the position of this textbook as the best single-volume introduction to food manufacturing technologies available. This edition has been updated and extended to include the many developments that have taken place since the second edition was published. In

particular, advances in microprocessor control of equipment, 'minimal' processing technologies, functional foods, developments in 'active' or 'intelligent' packaging, and storage and distribution logistics are described. Technologies that relate to cost savings, environmental improvement or enhanced product quality are highlighted. Additionally, sections in each chapter on the impact of processing on food-borne micro-organisms are included for the first time. Introduces a range of processing techniques that are used in food manufacturing Explains the key principles of each process, including the equipment used and the effects of processing on micro-organisms that contaminate foods Describes post-processing operations, including packaging and distribution logistics

Advances in Production Technology -

Christian Brecher 2014-11-18

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.

Standard Handbook of Machine Design -

Joseph Edward Shigley 1996

The latest ideas in machine analysis and design have led to a major revision of the field's leading handbook. New chapters cover ergonomics, safety, and computer-aided design, with revised information on numerical methods, belt devices, statistics, standards, and codes and regulations. Key features include: *new material on ergonomics, safety, and computer-aided design; *practical reference data that helps machine designers solve common problems--with a minimum of theory. *current CAS/CAM

applications, other machine computational aids, and robotic applications in machine design. This definitive machine design handbook for product designers, project engineers, design engineers, and manufacturing engineers covers every aspect of machine construction and operations. Voluminous and heavily illustrated, it discusses standards, codes and regulations; wear; solid materials, seals; flywheels; power screws; threaded fasteners; springs; lubrication; gaskets; coupling; belt drive; gears; shafting; vibration and control; linkage; and corrosion.

Theory and Problems of Linear Algebra - R. D. Sharma 2010-12-01

Theory and Problems of Linear Algebra has been designed to cater to the need of students opting Linear Algebra as a subject at undergraduate and postgraduate levels in various Indian universities. The book exhaustively covers the subject matter and its ap

The 5AM Club - Robin Sharma 2018-12-04

Legendary leadership and elite performance expert Robin Sharma introduced The 5am Club concept over twenty years ago, based on a revolutionary morning routine that has helped his clients maximize their productivity, activate their best health and bulletproof their serenity in this age of overwhelming complexity. Now, in this life-changing book, handcrafted by the author over a rigorous four-year period, you will discover the early-rising habit that has helped so many accomplish epic results while upgrading their happiness, helpfulness and feelings of aliveness. Through an enchanting—and often amusing—story about two struggling strangers who meet an eccentric tycoon who becomes their secret mentor, The 5am Club will walk you through: How great geniuses, business titans and the world’s wisest people start their mornings to produce astonishing achievements A little-known formula you can use instantly to wake up early feeling inspired, focused and flooded with a fiery drive to get the most out of each day A step-by-step method to protect the quietest hours of daybreak so you have time for exercise, self-renewal and personal growth A neuroscience-based practice proven to help make it easy to rise while most people are sleeping, giving you precious time for yourself to think, express your creativity and begin the day peacefully instead of being rushed “Insider-only”

tactics to defend your gifts, talents and dreams against digital distraction and trivial diversions so you enjoy fortune, influence and a magnificent impact on the world Part manifesto for mastery, part playbook for genius-grade productivity and part companion for a life lived beautifully, The 5am Club is a work that will transform your life. Forever.

A Textbook of Production Engineering - P C Sharma 1999

This is the revised edition of the book with new chapters to incorporate the latest developments in the field. It contains approx. 200 problems from various competitive examinations (GATE, IES, IAS) have been included. The author does hope that with this, the utility of the book will be further enhanced.

A Textbook of Production Technology (Manufacturing Processes) LPSPE - Sharma P.C.

For more than 20 years, [A Textbook of Production Technology] has been a useful book for undergraduate students of Mechanical Engineering. It is written with the objective of providing comprehensive knowledge about various aspects of materials used in manufacturing process along with the Welding Process, machine tools and ceramic and composite materials.

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

A Textbook of Production Engineering - Pramod C. Sharma 1982

Unconventional Machining Processes - T. Jagadeesha 2016-07

Technologies in Food Processing - Harish Kumar Sharma 2018-07-17

With the unprecedented increase in the world’s population, the need for different food processing techniques becomes extremely important. And with the increase in awareness of and demand for food quality, processed products with improved quality and better taste that are safe are also important aspects that need to be addressed. In this volume, experts examine the use of different technologies for food processing. They look at technology with ways to preserve nutrients, eliminate anti-nutrients and toxins,

add vitamins and minerals, reduce waste, and increase productivity. Topics include, among others: • applications of ohmic heating • cold plasma in food processing • the role of biotechnology in the production of fermented foods and beverages • the use of modification of food proteins using gamma irradiation • edible coatings to restrain migration of moisture, oxygen, and carbon dioxide • natural colorants, as opposed to synthetic coloring, which may have toxic effects • hurdle technology in the food industry • the unrecognized potential of agro-industrial waste

A Textbook of Manufacturing Technology - R. K. Rajput 2007

Manufacturing Processes - H. N. Gupta 2012-09 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.

A Textbook of Workshop Technology - RS Khurmi | JK Gupta 2008

A Textbook of workshop

Technology(Manufacturing Processes)to the students of degree and diploma of all the Indian and foreign universities.The object of this book is to present the subject matter in a most concise,compact,to the point and lucid manner.While writing the book,we have constantly kept in mind the various requirements of the students.No effort has been spared to enrich the book with simple language and self-explanatory diagrams.Every care has been taken not to make the book voluminous,as the students have also to face other subjects of equal importance.

Fundamentals of Information Technology - Bharihoke 2009

The third edition of Fundamentals of Information Technology is a 'must have' book not only for BCA and MBA students, but also for all those who want to strengthen their knowledge of computers. The additional chapter on MS Office is a comprehensive study on MS Word, MS Excel and other components of the package. This book is packed with expert advice from eminent IT professionals, in-depth analyses and practical examples. It presents a detailed functioning of hardware components besides covering the

software concepts. A broad overview of Computer architecture, Data representation in the computer, Operating systems, Database management systems, Programming languages, etc., has also been included. An additional chapter on Mobile Computing and other state-of-the-art innovations in the IT world have been incorporated. Not only that, the latest Internet technologies have also been covered in detail. One should use this book to acquire computer literacy in terms of how data is represented in a computer, how hardware devices are integrated to get the desired results, how the computer can be networked for interchanging data and establishing communication. Each chapter is followed by a number of review questions.

Tribes - Seth Godin 2008-10-16

The New York Times, BusinessWeek, and Wall Street Journal Bestseller that redefined what it means to be a leader. Since it was first published almost a decade ago, Seth Godin's visionary book has helped tens of thousands of leaders turn a scattering of followers into a loyal tribe. If you need to rally fellow employees, customers, investors, believers, hobbyists, or readers around an idea, this book will demystify the process. It's human nature to seek out tribes, be they religious, ethnic, economic, political, or even musical (think of the Deadheads). Now the Internet has eliminated the barriers of geography, cost, and time. Social media gives anyone who wants to make a difference the tools to do so. With his signature wit and storytelling flair, Godin presents the three steps to building a tribe: the desire to change things, the ability to connect a tribe, and the willingness to lead. If you think leadership is for other people, think again—leaders come in surprising packages. Consider Joel Spolsky and his international tribe of scary-smart software engineers. Or Gary Vaynerhuck, a wine expert with a devoted following of enthusiasts. Chris Sharma led a tribe of rock climbers up impossible cliff faces, while Mich Mathews, a VP at Microsoft, ran her internal tribe of marketers from her cube in Seattle. Tribes will make you think—really think—about the opportunities to mobilize an audience that are already at your fingertips. It's not easy, but it's easier than you think.

Encyclopedia of Information Science and

Technology - Mehdi Khosrow-Pour 2009

"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

A Textbook of Production Technology

(Manufacturing Processes) - P C Sharma 2007

The printing of the seventh edition of the book has provided the author with an opportunity to completely go through the text. Minor Additions and Improvements have been carried out, wherever needed. All the figure work has been redone on computer, with the result that all the figures are clear and sharp. The author is really thankful to M/s S.Chand & Company Ltd. for doing an excellent job in publishing the latest edition of the book.

Production Technology - R.k Jain 2012

Manufacturing Technology: - Singh, D. K.

This new edition of Manufacturing Technology retains the flavour of the first edition by providing readers with comprehensive coverage of theory with a diverse array of exercises. Designed for extensive practice and self study,

this book presents t

Industry 4.0 - Jesús Hamilton Ortiz 2020-03-25

This book shows a vision of the present and future of Industry 4.0 and identifies and examines the most pressing research issue in Industry 4.0. Containing the contributions of leading researchers and academics, this book includes recent publications in key areas of interest, for example: a review on the Industry 4.0: What is the Industry 4.0, the pillars of Industry 4.0, current and future trends, technologies, taxonomy, and some case studies (A.U.T.O 4.0, stabilization of digitized process). This book also provides an essential tool in the process of migration to Industry 4.0. The book is suitable as a text for graduate students and professionals in the industrial sector and general engineering areas. The book is organized into two sections: 1. Reviews 2. Case Studies Industry 4.0 is likely to play an important role in the future society. This book is a good reference on Industry 4.0 and includes some case studies. Each chapter is written by expert researchers in the sector, and the topics are broad; from the concept or definition of Industry 4.0 to a future society 5.0.