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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.

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 appox. 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 T/B Of Manufacturing Tech-1-P C Sharma 2008-01-01 The Book has been written to meet the need of First Year Mechnacial Engineering students of Anna University,for the course Manufacturing Technology-I .The author hopes that the matter will come up to the expectations of both the students and the teachers.

Production Technology-R.k Jain 2012

A Textbook of Production Technology- 2006

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

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

A T/B Of Manufacturing Tech-2-P C Sharma 2008-01-01 A text book of ManufacturingTechnology-II.is the result ofpersistent demand from the students and teachers of various Technical Institutes affliated to university of Tamil Nadu.The book fully covers the contents of the syllabus of the course:ME 1203, Mechanical Technology-II ,taught to undergraduate Mechnanical Engineering students of the University.The author sincerely hopes that the book will meet the needs of the readers.

Inventory Planning with Innovation-Sanjay Sharma

2021-03-25 Inventory Planning with Innovation: A Cost Focus discusses inventory planning concepts with major emphasis on innovation to reduce cost in a single volume. Provides an understanding of innovation efforts and linking it with inventory planning in reducing cost. Offers various factors influencing innovation efforts, knowledge of investment or expenditure that might be estimated before starting the innovation efforts, purchase inventory, and the manufacturing inventory. Covers important concepts including innovation efforts, strategic period, procurement inventory, total cost estimation, production inventory, related total cost planning, multiple products, multiple items procurements, and multiple items manufacture. This reference is primarily written for senior undergraduate, graduate students, and professionals in the field of industrial engineering, production engineering, and manufacturing science.

Manufacturing Inventory and Supply Analysis-Sanjay Sharma 2021-10-12 This reference text discusses models and analyzes cases that are useful for material requirements planning (MRP), just-in-time (JIT) environments and supply chain environments, as well as traditional production-inventory systems. It covers important concepts, including production-inventory systems, optimal purchase quantity, optimal production quantity, instantaneous procurement, multiple input items, sensitivity analysis, multiproduct manufacturing, determination of optimum cycle time, fractional backlogging, and incorporating input item procurement and flexibility in the production rate. Aimed at senior undergraduate and graduate students, and professionals in the field of industrial engineering, production engineering and manufacturing science, this text: Provides detailed models/analysis pertaining to various cases which are useful for material requirements planning and supply chain environments Elaborates manufacturing rate flexibility,

demand variation and production rate variation Discusses the multi-item manufacturing environment and presents models with backorders, as well as fractional backlogging Analyzes flexible production rates, along with upward and downward variations

Power Plant Engineering-P. C. Sharma 2009

ELEMENTS OF MANUFACTURING PROCESSES-B. S. NAGENDRA PARASHAR 2002-01-01 This comprehensive introduction to basic manufacturing processes is ideal for both degree and diploma courses in engineering. With several pedagogical features, the text makes the topics understandable and appealing for students. The book first introduces the concepts of engineering materials and their properties, measurement and quality in manufacturing and allied activities before dwelling upon the details of different manufacturing processes such as machining, casting, metal forming, powder metallurgy and joining. To keep pace with the latest advancements in technology, use of non-conventional resources, applications of computers, and use of robots in manufacturing are also discussed in considerable detail. The text also provides a thorough treatment of topics on economy and management of production.

Technologies in Food Processing-Harish Kumar Sharma 2018-07-17 With the unprecedented increase in the world's population, the need for different foodprocessing 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

Power Plant Engineering-A. K. Raja 2006 This Text-Cum-Reference Book Has Been Written To Meet The Manifold Requirement And Achievement Of The Students And Researchers. The Objective Of This Book Is To Discuss, Analyses And Design The Various Power Plant Systems Serving The Society At Present And Will Serve In Coming Decades India In Particular And The World In General. The Issues Related To Energy With Stress And Environment Up To Some Extent And Finally Find Ways To Implement The Outcome.Salient Features# Utilization Of Non-Conventional Energy Resources# Includes Green House Effect# Gives Latest Information S In Power Plant Engineering# Include Large Number Of Problems Of Both Indian And Foreign Universities# Rich Contents, Lucid Manner

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

Ghostmen: the Journey of Your Dreams!-Dr P.C. Sharma 2015-09-19 This is the story of a perennial stream. The water (students) keeps on flowing by forward but, the stream - the institutional life - remains the same. Thus, this is the story of every student, of every youth aspiring for high goals of life. Most of the events are from my own life and those of my erstwhile class-fellows, albeit attributed in the story to its characters.

A Textbook of Machine Design-RS Khurmi | JK Gupta 2005 The present multicolor edition has been throughly revised and brought up-to-date.Multicolor pictures have been added to enhance the content value and to give the students an idea of what he will be dealing in reality,and to bridge the gap between theory and practice.this book ahs already been include in the 'suggested reading'for the A.M.I.E.(India)examinations.

Manufacturing Science-G. S. Sawhney 2015-06-30

Advances in Systems Engineering-V. H. Saran 2021-02-24 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.

An Introduction to Optimization Techniques- Vikrant Sharma 2021-04-20 An Introduction to Optimization Techniques introduces the basic ideas and techniques of optimization. Optimization is a precise procedure using design constraints and criteria to enable the planner to find the optimal solution. Optimization techniques have been applied in numerous fields to deal with different practical problems. This book is designed to give the reader a sense of the challenge of analyzing a given situation and formulating a model for it while explaining the assumptions and inner structure of the methods discussed as fully as possible. It includes real-world examples and applications making the book accessible to a broader readership. Features Each chapter begins with the Learning Outcomes (LO) section, which highlights the critical points of that chapter. All learning outcomes, solved examples and questions are mapped to six Bloom Taxonomy levels (BT Level). Book offers fundamental concepts of optimization without becoming too complicated. A wide range of solved examples are presented in each section after the theoretical discussion to clarify the concept of that section. A separate chapter on the application of spreadsheets to solve different optimization

techniques. At the end of each chapter, a summary reinforces key ideas and helps readers recall the concepts discussed. The wide and emerging uses of optimization techniques make it essential for students and professionals. Optimization techniques have been applied in numerous fields to deal with different practical problems. This book serves as a textbook for UG and PG students of science, engineering, and management programs. It will be equally useful for Professionals, Consultants, and Managers.

MANUFACTURING PROCESSES-J. P. KAUSHISH 2010-06-12 The revised and updated second edition of this book gives an in-depth presentation of the basic principles and operational procedures of general manufacturing processes. It aims at assisting the students in developing an understanding of the important and often complex interrelationship among various technical and economical factors involved in manufacturing. The book begins with a discussion on material properties while laying emphasis on the influence of materials and processing parameters in understanding manufacturing processes and operations. This is followed by a detailed description of various manufacturing processes commonly used in the industry. With several revisions and the addition of four new chapters, the new edition also includes a detailed discussion on mechanics of metal cutting, features and working of machine tools, design of molds and gating systems for proper filling and cooling of castings. Besides, the new edition provides the basics of solid-state welding processes, weldability, heat in welding, residual stresses and testing of weldments and also of non-conventional machining methods, automation and transfer machining, machining centres, robotics, manufacturing of gears, threads and jigs and fixtures. The book is intended for undergraduate students of mechanical engineering, production engineering and industrial engineering. The

diploma students and those preparing for AMIE, Indian Engineering Services and other competitive examinations will also find the book highly useful. New to This Edition : Includes four new chapters Non-conventional Machining Methods; Automation: Transfer Machining, Machining Centres and Robotics; Manufacturing Gears and Threads; and Jigs and Fixtures to meet the course requirements. Offers a good number of worked-out examples to help the students in mastering the concepts of the various manufacturing processes. Provides objective-type questions drawn from various competitive examinations such as Indian Engineering Services and GATE.

MACHINING AND MACHINE TOOLS (With CD)-A.B.Chattopadhyay 2011-08-01 Market_Desc: Primary MarketMechanical Engineering students. UG students of the allied disciplines like Manufacturing Engineering, Production Engineering, Industrial Engineering, Aero. Engg, Automobile Engg, Manuf. Sc. & Engg. Students in PG and Dual Degree.Secondary MarketStudents and young professionals trying for AMIE certificate from the Institution of Engineers where also machining and machine tools is a compulsory subject for the Mechanical Engineering stream. The candidates preparing for the competitive examinations like IES, IRSE, IFS, etc. will also be benefited by this book. Special Features: · Comprehensive coverage from basic to advanced topics· Lucid and simple-to-understand style of explanation· Key concepts are driven home with apt examples and solved problems· Visual recall is enhanced by the clear artwork accompanying all the concepts· Solved and unsolved problems are included to inculcate problem-solving abilities in the reader· This book has been pedagogically enriched with: ü 600 line diagrams and photographs of all types of machine tools and instruments used in manufacturing processesü

100+ solved problems and examplesü 120+ unsolved problemsü 430+ objective type questions, with special focus on competitive examsü Nearly 600 review questions (long and short answer) covering all topics for university examsCD Companion:· Answers to multiple-choice questions· Chapters wise References· Bibliography · Two Model Question Papers About The Book: Machining and machine tools is a text targeted towards the students and teachers for the undergraduate Manufacturing Processes course in the Mechanical Engineering discipline. Post graduate students in the production and manufacturing streams will also find this book a good reference.This book brings a holistic approach to the understanding of machine tools and manufacturing processes, giving equal emphasis to historical background and chronological development, and to modern developments in manufacturing and contemporary machining processes. With the help of lucid explanations coupled with striking examples and accompanying visual aids, the book begins from the very basics and gradually builds reader understanding up to the advanced topics in this field.This is also a handy text for practising professionals as it contains all the relevant tables, data and figures, and can act as a quick reference.

Cocoa Production and Processing Technology- Emmanuel Ohene Afoakwa 2014-02-21 One of the largest food commodities exported from the developing countries to the rest of the world, cocoa has gained increasing attention on the global market—raising many questions about its quality, sustainability and traceability. Cocoa Production and Processing Technology presents detailed explanations of the technologies that could be employed to assure sustainable production of high-quality and safe cocoa beans for the global confectionary industry. It provides overviews of up-to-date technologies and approaches to modern cocoa production practices, global

production and consumption trends as well as principles of cocoa processing and chocolate manufacture. The book covers the origin, history and taxonomy of cocoa, and examines the fairtrade and organic cocoa industries and their influence on smallholder farmers. The chapters provide in-depth coverage of cocoa cultivation, harvesting and post-harvest treatments with a focus on cocoa bean composition, genotypic variations and their influence on quality, post-harvest pre-treatments, fermentation techniques, drying, storage and transportation. The author provides details on cocoa fermentation processes as well as the biochemical and microbiological changes involved and how they influence flavour. He also addresses cocoa trading systems, bean selection and quality criteria, as well as industrial processing of fermented and dried cocoa beans into liquor, cake, butter and powder. The book examines the general principles of chocolate manufacture, detailing the various stages of the processes involved, the factors that influence the quality characteristics and strategies to avoid post-processing quality defects. This volume presents innovative techniques for sustainability and traceability in high-quality cocoa production and explores new product development with potential for cost reduction as well as improved cocoa bean and chocolate product quality.

A Textbook Of Production Engineering-P. C. Sharma 2008

Sustainability in Industry 4.0-Shwetank Avikal 2021-10-01 A large and growing number of manufacturers are realizing the substantial financial and environmental benefits of sustainable business practices. To develop more sustainable societies, industries need to better understand how to respond to environmental, economic, and social challenges and transform industrial behavior. The objective of this book is to provide the required

knowledge and accelerate the transition towards a sustainable industrial system. The book will help industries to enhance operational efficiency by reducing costs and waste. It will help them increase customer response, reach new customers, and gain competitive advantage. It offers innovation, scenario planning, and strategic analysis that goes beyond compliance, as well as case studies and remedies to the industry 4.0 challenges. Professionals, as well as students, can refer to this book to add to their knowledge on Industry 4.0 and develop new ideas and solutions to the existing and future problems.

Manufacturing Parameters and Entrepreneurship-
Sanjay Sharma 2020-12-07
Manufacturing Parameters and Entrepreneurship provides a guide that helps business leaders understand and apply the production parameters and estimation techniques needed for commercial success. This book covers important concepts in depth, including manufacturing space, manufacturing quality, production backorders, space consideration, quality aspects, maximum inventory control, entrepreneurial application, and quality inclusion. Key features: Covers manufacturing parameters, their estimation, and effects in a single volume. Discusses conceptualization, formulation, and analysis of space consideration. Provides basic understanding and mathematical treatment of quality aspects in detail. Discusses in detail concepts such as manufacturing space, manufacturing quality, and production backorders. Covers stock out situations in detail. Manufacturing Parameters and Entrepreneurship will be an invaluable addition to the libraries of graduate students and professionals in the field of industrial engineering, production engineering, and manufacturing science and engineering.

Manufacturing Technology—Metal Cutting and Machine Tools, 4e

(Volume II)-P N Rao 2018-07-24 Mc-Graw Hill Education is proud to announce the fourth edition of Manufacturing Technology, Volume 2 on Metal cutting and Machine Tools, by our well-known author P N Rao. With latest industrial case studies and expanded topical coverage, the textbook offers a deep knowledge of the ever-evolving subject. A dedicated section on chapter-wise GATE questions provide support to the competitive examinations' aspirants. This revised edition also maintains its principle of lucid presentation and easy to understand pedagogy. This makes the book a complete package on the subject which will greatly benefit students, teachers and practicing engineers. Salient Features: - Well organised description of equipment, from practical information to its process, supported with easy to understand illustrations, numerical calculation and discussion of the result. - Expanded topical coverage by adding One new chapter, on Micro-Manufacturing. Included new required topics like, Automation, Economics of Tooling, etc. - Latest Industrial Case Studies, like Turbine Blade Machining, Welding Fixture, etc.

MECHANICAL VIBRATIONS-R. VENKATACHALAM 2014-11-01 Aiming at undergraduate and postgraduate students of mechanical engineering, the book has been written with a long teaching experience of the author. Lucid and beyond traditional writing style makes the text different from other books. In this text, every effort has been taken to make the subject easy and interesting. The concepts have been explained in such a manner that students do not require any prerequisite knowledge. The text amalgamated with real-world examples help students adhere to the book and learn the concepts on their own. Throughout the book, engaging and thought-provoking approach has been followed. It discusses free and forced vibrations of undamped and damped single degree freedom systems, self-excited vibrations, vibrations of two and multi degree

freedom systems, vibrations of continuous systems and Lagrangian formulation. A chapter on 'Set up a Mechanical Vibration Laboratory' helps students and teachers to learn how to develop a basic laboratory without involving a heavy cost. Besides undergraduate and postgraduate students, this text also serves as a launch pad for those who want to pursue research. Key Features • Simple practical demonstrations. • Helps the student in developing important skills such as reasoning, interpretation and physical visualisation. • Helps to develop software. • Prepares for competitive examinations. • There are nearly 50 problems illustrated and around 200 problems given in exercises for practice.

Innovative Saline Agriculture-J.C. Dagar 2016-08-10 The land degradation due to salinity and waterlogging is a global phenomenon, afflicting about one billion hectares within the sovereign borders of at least 75 countries. Besides staring at the food security, it has far reaching and unacceptable socio-economic consequences since a large proportion of this land is inhabited by smallholder farmers. The anthropogenic-environmental changes and the climate change are further adding to the problem of salinity and waterlogging. The phenomenon of sea-level rise will bring more areas under waterlogged salinity due to inundation by sea water. Thus, dealing with the salinity in reality is becoming a highly onerous task owing to its complex nature, uncertainty and differential temporal and spatial impacts. Nevertheless, with the need to provide more food, feed, fuel, fodder and fiber to the expanding population, and non-availability of new productive land, there is a need for productivity enhancement of these lands. In fact, the salt-affected and waterlogged lands cannot be neglected since huge investments have been made throughout the world in the development of irrigation and drainage infrastructure. The social, economic and environmental costs being high for theon-

and/off-farm reclamation techniques, saline agriculture including agroforestry inculcated with modern innovative techniques, is now emerging as a potential tool not only for arresting salinity and waterlogging but for other environmental services like mitigate climate change, sequester carbon and biodiversity restoration. This publication attempts to address a wide range of issues, principles and practices related to the salinity involved in rehabilitation of waterlogged saline soils and judicious use of saline waters including sea water. Many of the site specific case studies typical to the saline environment including coastal ecologies sustaining productivity, rendering environmental services, conserving biodiversity and mitigating climate change have been described in detail. Written by leading researchers and experts of their own fields, the book is a must, not only for salinity experts but also for policy makers, environmentalists, students and educationists alike. More importantly, it contributes to reversing the salinity trends and teaches to sustain with salinity ensuring the livelihood of resource-poor farming families leaving in harsh ecologies including coastal areas which are more vulnerable to climate change.

Industrial Safety and Maintenance Management- M.P. Poonia, S.C. Sharma 2017 In the age of industrialisation having main focus on increased production, higher productivity, stringent quality, minimizing cost etc., it has become essential to have more knowledge on industrial safety and various hazards with their remedial measures. Maintenance aspects are also gaining importance, as they have substantial impact on production, productivity, workers safety and their health and working environment. Neglect of safety in an industry at any stage. from concept to design, erection, commissioning, operation and maintenance of plant and machinery may lead to loss of life, production and money. It is hoped that this book will be very useful for

the engineering student and professionals. The book covers the AICTE model curriculum and the syllabii of various other Indian university on the subject.

A Textbook of Heat and Mass Transfer [Concise Edition]-RK Rajput □A Textbook of Heat and Mass Transfer□ is a comprehensive textbook for the students of Mechanical Engineering and a must-buy for the aspirants of different entrance examinations including GATE and UPSC. Divided into 4 parts, the book delves into the subject beginning from Basic Concepts and goes on to discuss Heat Transfer (by Convection and Radiation) and Mass Transfer. The book also becomes useful as a question bank for students as it offers university as well as entrance exam questions with solutions.

A T.B. Of Machine Tools & Tool Design-P. C. Sharma 2005-01-01 This Book A Textbook of machine tools and tool Design is the result of persistent demand from the students and teachers of various Technical Institutes affiliate to university of Tamil Nadu.The book fully covers the contents of the syllabi of two courses:ME 334, Machine Tools and ME 339, Design of jigs,Fixtures and press Tools taught to undergraduate Mechanical Engineering students of the university.The author sincerely hopes that the book will meet the readers.All the suggestions to improve the text of the book will always be welcomed.

Spice Crops Production Technology-Das, P.C. 2014-07-01 Spices are very important as food and as medicine, and they bring out the unique natural taste of cuisines and could be used to change the look of the food to make it more attractive in colour. The book is written in simple and lucid language to provide basic information about cultivation of spice crops.

Microbial Cell Factories-Deepansh Sharma 2018-03-22

Microbial Cell Factories is a conceptual, reference-based source including chapters covering microbial cell factories for industrial developments, microbial biotechnology, sustainable environmental solutions, agriculture practices, microorganisms in food processing, metabolites as next generation food additives/food processing, and microbial cell factories in alternative energy fuel generation. The book highlights trends and developments in the field of microbial products, written by an international team of leading academic and research scholars. Key Selling Features: Highlights trends and developments in microbial biotechnology Systematically reviews microbial cell factories Explores the potential of microbial cell derived industrial production Synthesizes information on environmental and agricultural uses of microbial biotechnology Contributions from an international team of leading scholars

Manufacturing Technology - II-Dr. R.Kesavan 2006

Advances in Materials and Manufacturing Engineering-Leijun Li 2020-01-09 This book gathers outstanding papers presented at the International Conference on Advances in Materials and Manufacturing Engineering (ICAMME 2019), held at KIIT Deemed to be University, Bhubaneswar, India, from 15 to 17 March 2019. It covers theoretical and empirical developments in various areas of mechanical engineering, including manufacturing, production, machine design, fluid/thermal engineering, and materials.

Manufacturing Operations Management-Sanjay Sharma 2018-09-18 This book includes broad coverage of production and associated services. Since the success of manufacturing operations depends on the demand information and costs and revenue, qualitative and quantitative techniques of demand forecasting and also financial analysis are covered

in this book. Topics such as facilities layout, inventory, project management, production, planning and management are explained in detail. Additional topics include quality control and work study.

Deep Learning in Gaming and Animations-Vikas Chaudhary 2021-12-08 Over the last decade, progress in deep learning has had a profound and transformational effect on many complex problems, including speech recognition, machine translation, natural language understanding, and computer vision. As a result, computers can now achieve human-competitive performance in a wide range of perception and recognition tasks. Many of these systems are now available to the programmer via a range of so-called cognitive services. More recently, deep reinforcement learning has achieved ground-breaking success in several complex challenges. This book makes an enormous contribution to this beautiful, vibrant area of study: an area that is developing rapidly both in breadth and depth. Deep learning can cope with a broader range of tasks (and perform those tasks to increasing levels of excellence). This book lays a good foundation for the core concepts and principles of deep learning in gaming and animation, walking you through the fundamental ideas with expert ease. This book progresses in a step-by-step manner. It reinforces theory with a full-fledged pedagogy designed to enhance students' understanding and offer them a practical insight into its applications. Also, some chapters introduce and cover novel ideas about how artificial intelligence (AI), deep learning, and machine learning have changed the world in gaming and animation. It gives us the idea that AI can also be applied in gaming, and there are limited textbooks in this area. This book comprehensively addresses all the aspects of AI and deep learning in gaming. Also, each chapter follows a similar structure so that students, teachers, and industry experts can orientate

themselves within the text. There are few books in the field of gaming using AI. Deep Learning in Gaming and Animations teaches you how to apply the power of deep learning to build complex reasoning tasks. After being exposed to the foundations of machine and deep learning, you will use Python to build a bot and then teach it the game's rules. This book also focuses on how different technologies have revolutionized gaming and animation with various illustrations.

Manufacturing Science-Ghosh 1990-11-01

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.