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Shop Theory - James Anderson 1974

An introductory textbook on machine shop theory and practice, including information on basic machine tools, bench operations, metrology, and career opportunities in the machine trades.

Laser in Manufacturing - J. Paulo Davim 2013-03-04

Generally a laser (light amplification by stimulated emission of radiation) is defined as "a device which uses a quantummechanical effect, stimulated emission, to generate a coherent beam of light from a lasing medium of controlled purity, size, and shape". Laser material processing represents a great number of methods, which are rapidly growing in current and different industrial applications as new alternatives to traditional manufacturing processes. Nowadays, the use of lasers in manufacturing is an emerging area with a wide variety of applications, for example, in electronics, molds and dies, and biomedical applications. The purpose of this book is to present a collection of examples illustrating the state of the art and research developments to lasers in manufacturing, covering laser rapid manufacturing, lasers in metal forming applications, laser forming of metal foams, mathematical modeling of laser drilling, thermal stress analysis, modeling and simulation of laser welding, and the use of lasers in surface engineering.

This book can be used as a research book for a final undergraduate engineering course or as a subject on lasers in manufacturing at the postgraduate level. Also, this book can serve as a useful reference for academics, laser researchers, mechanical, manufacturing, materials or physics engineers, or professionals in any related modern manufacturing technology. Contents
1. Laser Rapid Manufacturing: Technology, Applications, Modeling and Future Prospects, Christ P. Paul, Pankaj Bhargava, Atul Kumar, Ayukt K. Pathak and Lalit M. Kukreja. 2. Lasers in Metal Forming Applications, Stephen A. Akinlabi, Mukul Shukla, Esther T. Akinlabi and Tshilidzi Marwala. 3. Laser Forming of Metal Foams, Fabrizio Quadrini, Denise Bellisario, Erica A. Squeo and Loredana Santo. 4. Mathematical Modeling of Laser Drilling, Maturose Suchatawat and Mohammad Sheikh. 5. Laser Cutting a Small Diameter Hole: Thermal Stress Analysis, Bekir S. Yilbas, Syed S. Akhtar and Omer Keles. 6. Modeling and Simulation of Laser Welding, Karuppudaiyar R. Balasabramanian, Krishnasamy Sankaranarayanan and Gangusami N. Buvanashakaran. 7. Lasers in Surface Engineering, Alberto H. Garrido, Rubén González, Modesto Cadenas, Chin-Pei Wang and Farshid Sadeghi.

Accident Prevention Manual for Industrial Operations - National Safety Council 1951

Advances in Control - Paul M. Frank 2012-12-06

Advances in Control contains keynote contributions and tutorial material from the fifth European Control Conference, held in Germany in September 1999. The topics covered are of particular relevance to all academics and practitioners in the field of modern control engineering. These include: - Modern Control Theory - Fault Tolerant Control Systems - Linear Descriptor Systems - Generic Robust Control Design - Verification of Hybrid Systems - New Industrial Perspectives - Nonlinear System Identification - Multi-Modal Telepresence Systems - Advanced Strategies for Process Control - Nonlinear Predictive Control - Logic Controllers of Continuous Plants - Two-dimensional Linear Systems. This important collection of work is introduced by Professor P.M. Frank who has almost forty years of experience in the field of automatic control. State-of-the-art research, expert opinions and future developments in control theory and its industrial applications, combine to make this an essential volume for all those involved in control engineering.

Service Quality in Indian Hospitals - Sanjay Mohapatra 2017-10-18

This book offers an elaborate and empirical look at service quality of hospitals in the emerging market of India. The poor quality of service is a major issue in a large number of hospitals (particularly in government hospitals), which forces patients to opt for private hospitals that are generally much more expensive than government hospitals. This book provides a comprehensive understanding of service quality antecedents in Indian hospitals. It focuses on patient satisfaction and includes valuable insights and implications for hospital management and government. The book is theoretically grounded in SERVQUAL literature and uses appropriate and sophisticated techniques and tools to analyse data. It highlights causal model development with Structural Equation Modelling (SEM) and introduces a classification model, developed using Artificial Neural Networks (ANNs), in order to benchmark specialty cardiac care. The book also deals with Support Vector Machines (SVMs) and compares the error rates between SVM and ANN to find the best classification technique among the two. Overall, this book is a timely and relevant work that contributes to the theory, practice and policy of service quality in hospitals.

FITNESS for Service - 2007

Guidelines for Chemical Process Quantitative Risk Analysis - 1985

The Heart of Science - Jayshree Seth 2020-11-02

Explore big ideas with the Science Advocate in Chief through this collection of insights, reflections, and tips. Compiled from a career that spans over 25 years and more than 65 patents, Dr. Jayshree Seth discusses our relationship with science, technology, and engineering while offering her unique perspective on topics surrounding advocacy, interdisciplinary contexts, dynamic leadership, and inclusive progress.

Manufacturing Engineering - J. Paulo Davim 2014-01-01

Currently, manufacturing engineering assumes a great importance to industrialised countries (G7) and countries with emerging economies (BRICS). Manufacturing engineering is a discipline of engineering dealing with different manufacturing practices and the research and development of systems, processes, machines, tools and equipment. Manufacturing engineering is important to several advanced industries such as automotive, aeronautic, aerospace, alternative energy, moulds and dies, biomedical, etc. This book aims to provide research and review studies on manufacturing engineering. This research book can be used for final undergraduate engineering courses (for example, mechanical, manufacturing, industrial, etc) or as a subject on manufacturing at the postgraduate level. Also, this book can serve as a useful reference for academics, manufacturing researchers, mechanical manufacturing and industrial engineers, and professionals in related industries with manufacturing engineering.

Hands-On Machine Learning for Algorithmic Trading - Stefan Jansen 2018-12-31

Explore effective trading strategies in real-world markets using NumPy, spaCy, pandas, scikit-learn, and Keras Key Features Implement machine learning algorithms to build, train, and validate algorithmic models Create your own algorithmic design process to apply probabilistic machine learning approaches to trading decisions Develop neural networks for algorithmic trading to perform time series forecasting and smart analytics Book Description The explosive growth of digital data has boosted the demand for expertise in trading strategies that use machine learning (ML). This book enables you to use a broad range of supervised and unsupervised algorithms to extract signals from a wide variety of data sources and create powerful investment strategies. This book shows how to access market, fundamental, and alternative data via API or web

scraping and offers a framework to evaluate alternative data. You'll practice the ML workflow from model design, loss metric definition, and parameter tuning to performance evaluation in a time series context. You will understand ML algorithms such as Bayesian and ensemble methods and manifold learning, and will know how to train and tune these models using pandas, statsmodels, sklearn, PyMC3, xgboost, lightgbm, and catboost. This book also teaches you how to extract features from text data using spaCy, classify news and assign sentiment scores, and to use gensim to model topics and learn word embeddings from financial reports. You will also build and evaluate neural networks, including RNNs and CNNs, using Keras and PyTorch to exploit unstructured data for sophisticated strategies. Finally, you will apply transfer learning to satellite images to predict economic activity and use reinforcement learning to build agents that learn to trade in the OpenAI Gym. What you will learn

Implement machine learning techniques to solve investment and trading problemsLeverage market, fundamental, and alternative data to research alpha factorsDesign and fine-tune supervised, unsupervised, and reinforcement learning modelsOptimize portfolio risk and performance using pandas, NumPy, and scikit-learnIntegrate machine learning models into a live trading strategy on QuantopianEvaluate strategies using reliable backtesting methodologies for time seriesDesign and evaluate deep neural networks using Keras, PyTorch, and TensorFlowWork with reinforcement learning for trading strategies in the OpenAI GymWho this book is for Hands-On Machine Learning for Algorithmic Trading is for data analysts, data scientists, and Python developers, as well as investment analysts and portfolio managers working within the finance and investment industry. If you want to perform efficient algorithmic trading by developing smart investigating strategies using machine learning algorithms, this is the book for you. Some understanding of Python and machine learning techniques is mandatory.

Intelligent Manufacturing Systems - Andrew Kusiak 1990

Defining structure and functions of knowledge-based systems, this book presents hardware and software components of flexible machining, flexible assembly and computer-integrated manufacturing systems. Discussed are such areas as process planning, group technology and layout design.

Advances in Micro and Nano Manufacturing and Surface Engineering - M. S. Shunmugam 2019-11-30

This volume presents research papers on micro and nano manufacturing and surface engineering which were presented during the 7th International and 28th All India Manufacturing Technology, Design and Research conference 2018 (AIMTDR 2018). The papers discuss the latest advances in miniature manufacturing, the machining of miniature components and features as well as improvement of surface properties. This volume will be of interest to academicians, researchers, and practicing engineers alike.

Introduction to IoT - Sudip Misra 2021-06-10

A valuable guide for new and experienced readers, featuring the complex and massive world of IoT and IoT-based solutions.

Power System SCADA and Smart Grids - Mini S. Thomas 2017-12-19

Power System SCADA and Smart Grids brings together in one concise volume the fundamentals and possible application functions of power system supervisory control and data acquisition (SCADA). The text begins by providing an overview of SCADA systems, evolution, and use in power systems and the data acquisition process. It then describes the components of SCADA systems, from the legacy remote terminal units (RTUs) to the latest intelligent electronic devices (IEDs), data concentrators, and master stations, as well as: Examines the building and practical implementation of different SCADA systems Offers a comprehensive discussion of the data communication, protocols, and media usage Covers substation automation (SA), which forms the basis for transmission, distribution, and customer automation Addresses distribution automation and distribution management systems (DA/DMS) and energy management systems (EMS) for transmission control centers Discusses smart distribution, smart transmission, and smart grid solutions such as smart homes with home energy management systems (HEMs), plugged hybrid electric vehicles, and more Power System SCADA and Smart Grids is designed to assist electrical engineering students, researchers, and practitioners alike in acquiring a solid understanding of SCADA systems and application functions in generation, transmission, and distribution systems, which are evolving day by day, to help them adapt to new challenges effortlessly. The book reveals the inner secrets of SCADA systems, unveils the potential of the smart grid, and inspires more minds to get involved in the development

process.

CPCCCM1012A Work Effectively and Sustainably in the Construction Industry - 2012

Machine Drawing - Ajeet Singh 2012

Resource Allocation Problems in Supply Chains - K. Ganesh 2015-08-10

Resource Allocation is the utilization of available resources in the system. This book focuses on development of models for 6 new, complex classes of RA problems in Supply Chain networks, focusing on bi-objectives, dynamic input data, and multiple performance measure based allocation and integrated allocation, and routing with complex constraints.

Occupational Biomechanics - Don B. Chaffin 1984

Presents a complete picture of the emerging discipline of biomechanics as it relates to (1) diagnosis and treatment of musculoskeletal problems brought about by overexertion and mechanical strain in the workplace; and (2) the evaluation and design of work to avoid the probability of injurious mechanical stress of a worker's musculoskeletal system.

Detective Marketing - Stefan Engeseth 2001-10-01

"Some really good examples of business metaphors" TOMPETERS!

"There are a number of good ways to get an idea. Sleep on it, go for a walk or read Stefan Engeseth's new book. The sleeping and walking ways will be greatly enhanced if you read Detective Marketing first." AL RIES, CHAIRMAN, RIES & RIES "In his book Detective Marketing, Stefan has succeeded in creating what we always strive for: simplicity, clarity, perfection." CLAES ANDREASSON, DIRECTOR, ABSOLUT AKADEMI, THE ABSOLUT COMPANY "Straightforward thinking. It's thought provoking. He's taking the Pepper's One-to-One philosophy a step forward." BRAND REPUBLIC "Totally crap!!!" ANONYMOUS CRITIC ABOUT THE BOOK: This book is base on my theory of creative business and the meeting of minds. Because this requires a certain mindset from the reader, my readers are primarily professionals in IT, PR, corporate communications, advertising, marketing and sales. Creativity, however, knows no boundaries. No matter what your profession is, Detective Marketing can help you grow. ABOUT THE AUTHOR: Stefan Engeseth has been called everything from consultant to chaos pilot. A well known lecturer and writer, Stefan has built a solid reputation as a sort of 'Jonathon Livingston Seagull' of the business world. Over the years, he has worked with such diverse companies as Letsbuyit.com and the Swedish Postal Service. He has held over 500 lectures and workshops internationally at corporations and academic institutions attended by the University of Stockholm, Pace University (New York), IIU, IIR, BMW, J Walter Thompson, Leo Burnett, Daimler Chrysler, Ericsson, Berghs School of Communication, Public Relations and Pharmacia Corporation. He has also taken part in the Oresund Consulate's reference group on the Oresund bridge between Sweden and Denmark - one of the largest projects of its kind in Europe. He writes articles for international business magazines.

Effective Business Communication - M.V. Rodriques 1992

Safety Inspection Procedures - United States. Bureau of Labor Standards 1967

Materials, Design, and Manufacturing for Sustainable Environment - Santhakumar Mohan 2021-02-06

This book comprises the select proceedings of the International Conference on Materials, Design and Manufacturing for Sustainable Environment (ICMDMSE 2020). The primary focus is on emerging materials and cutting-edge manufacturing technologies for sustainable environment. The book covers a wide range of topics such as advanced materials, vibration, tribology, finite element method (FEM), heat transfer, fluid mechanics, energy engineering, additive manufacturing, robotics and automation, automobile engineering, industry 4.0, MEMS and nanotechnology, optimization techniques, condition monitoring, and new paradigms in technology management. Contents of this book will be useful to students, researchers, and practitioners alike.

Embedded Systems with Arm Cortex-M Microcontrollers in Assembly Language and C: Third Edition - Yifeng Zhu 2017-07

This book introduces basic programming of ARM Cortex chips in assembly language and the fundamentals of embedded system design. It presents data representations, assembly instruction syntax, implementing basic controls of C language at the assembly level, and instruction encoding and decoding. The book also covers many advanced components of embedded systems, such as software and hardware

interrupts, general purpose I/O, LCD driver, keypad interaction, real-time clock, stepper motor control, PWM input and output, digital input capture, direct memory access (DMA), digital and analog conversion, and serial communication (USART, I2C, SPI, and USB).

Materialogy - A Kanni Raj 2019-01-30

MATERIALOGY: Structure & Properties - discusses Bonding and Structure of Materials, Thermal and Mechanical Behaviour of Materials, Electrical and Dielectric Properties of Materials, Magnetic and Optical Properties of Materials. It is a textbook for BTech/MTech (Mechanical /Aeroanautical Engineering) and a reference book for manufacturing, metallurgical engineering and materials engineering. It shall serve as a handbook for engineering industrialists and research scientists working with Engineering Materials and Manufacturing Processes.

Interdisciplinary Treatment to Arc Welding Power Sources - S. Arungalai Vendan 2018-06-30

This book presents the fundamentals of arc phenomena, various arc welding power sources, their control strategies, welding data acquisition, and welding optimization. In addition, it discusses a broad range of electrical concepts in welding, including power source characteristics, associated parameters, arc welding power source classification, control strategies, data acquisitions techniques, as well as optimization methods. It also offers advice on how to minimize the flaws and improve the efficacy and performance of welds, as well as insights into the mechanical behavior expressed in terms of electromagnetic phenomena, which is rarely addressed. The book provides a comprehensive review of interdisciplinary concepts, offering researchers a wide selection of strategies, parameters, and sequences of operations to choose from.

Sustainable Manufacturing for Industry 4.0 - K. Jayakrishna 2020-10-19

Industry 4.0 promises tremendous opportunities for industries to go green by leveraging virtual physical systems and internet driven technologies for a competitive advantage and set the platform for the factory of the future and smart manufacturing. The book provides measures that can be adopted by practicing design engineers, to develop products that will be sustainable in all stages of its life cycle. It helps organizations in implementation of sustainable manufacturing practices and formulation of critical strategies in their transition towards Industry 4.0., and the book will provide insights on ways of deploying these practices in correlation with the environmental benefits mapped to support the practicing managers and stakeholders. Features Assists in the understanding of the shifting paradigm in manufacturing sector towards smart and sustainable practices Showcases contemporary technologies and their insurgence in existing industries Focuses on need, applications, and implementation framework for Industry 4.0

Encapsulates all that one has to learn about sustainability and its transformation in Industry 4.0 Real time case studies are presented

Corrosion and Surface Engineering - Joanna Michalska 2015-01-29
Collection of selected, peer reviewed papers from the International Scientific Conference Corrosion 2014, November 18-21, 2014, Gliwice, Poland. The 136 papers are grouped as follows: Chapter 1: Corrosion and Surface Engineering, Corrosion Protection; Chapter 2: Concrete Corrosion; Chapter 3: Corrosion and Surface Engineering in Industry; Chapter 4: Atmospheric Corrosion, Tribocorrosion, Erosion, Hydrogen Degradation and Diffusion; Chapter 5: Microbiological Corrosion; Chapter 6: High-Temperature Corrosion and Surface Strength, Thermal Coating; Chapter 7: Corrosion of Biomaterials; Chapter 8: Testing Methods

Electrolysis - Shing Kuai 2009

High temperature electrolysis (HTE), which is the highly efficient electrolysis of steam at high temperature and utilises the heat and electrical power supplied by advanced nuclear reactor, provides a very promising way for massive production of hydrogen in the future. This book provides an overview of HTE technology including its key characteristics and challenges of solid oxide electrolysis cell (SOEC) development. This book also examines the theory of electrical double layer, which is an essential electrochemical problem. The phenomenological theory of interfacial phenomena is also explored, with consideration of surface polarisation. Furthermore, the electrochemical reduction of nitrate has a great importance mainly for environmental and analytical purposes. This book provides a review of 225 papers dealing with the electrochemical reduction of nitrate. Other chapters introduce the application of electrochemical method for treatment of domestic wastewater and industrial wastewater, propose a novel point of view concerning some theoretical and practical aspects of isoelectric focusing, describe the electrochemical oxidation of strontium chloride (SrCl₂) to

strontium chlorate employing a noble metal oxide coated anode and rotating stainless steel cathode, and report a preparation method suitable for requirements of industrial applications to graft active polymer films. Experimental studies on electrodeposition of silver-indium (Ag-In) alloys are also described, as well as the application of the electrochemical discharge phenomenon to synthetic chemistry, nanoparticle synthesis and micromachining.

Macroergonomics - Hal W. Hendrick 2002-04-01

This book's primary objective is to provide a comprehensive coverage of ergonomics in overall work system analysis and design. It provides a summary of the historical development of macroergonomics. It explains how an understanding of macroergonomics can lead to improvements in such things as reducing work-related lost time accidents; and describes

Industrial Manufacturing - Cornelius T. Leondes 2000-01-10

The Technical Committee on Mechatronics formed by the International Federation for the Theory of Machines and Mechanisms, in Prague, Czech Republic, adopted the following definition for the term:

Mechatronics is the synergistic combination of precision mechanical, electronic control and systems thinking in the design products and manufacturing proc

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.

Modeling and Simulation Techniques in Structural Engineering - Samui, Pijush 2016-08-12

The development of new and effective analytical and numerical models is essential to understanding the performance of a variety of structures. As computational methods continue to advance, so too do their applications in structural performance modeling and analysis. *Modeling and Simulation Techniques in Structural Engineering* presents emerging research on computational techniques and applications within the field of structural engineering. This timely publication features practical applications as well as new research insights and is ideally designed for use by engineers, IT professionals, researchers, and graduate-level students.

Electrical Safety Engineering - W Fordham Cooper 2013-10-22

Electrical Safety Engineering, Third Edition covers the scientific principles, legislation, guidelines, and standards of electrical safety. This book is organized into six parts encompassing 20 chapters. Part 1 considers the nature of electrical injuries, the mechanical causes of electrical failures, and electrical insulation failure. Parts 2 and 3 describe the mechanism of breakdown and failure of electrical equipment, as well as the concept of circuit protection, with emphasis on the earthing principles and double insulation. Parts 4 and 5 explore the principles and application of electronic and solid-state control systems, fires, and explosion hazards. Part 6 focuses on the industrial supply and distribution of current and voltage. This book will prove useful to electrical engineers, electricians, and technicians.

Admitted - Soundarya Balasubramani 2020-09-13

Every year, hundreds of thousands of students embark on their journey to study abroad. According to the Indian Ministry of External Affairs, 753,000 Indian students were studying abroad in 2019. Studying abroad is a dream come true for many — yet, there is no all-encompassing resource available for aspirants today, that walks them through the step-by-step process to get their dream admit and prepare to study abroad. No more. Enter *Admitted*. *Admitted* is the brain-child of Soundarya Balasubramani, an Ivy League graduate from Columbia University, New York and a Gold Medalist from NIT Trichy, India. Soundarya wrote the book with contributions from two more Ivy League graduates, Saikishore Raju (Dartmouth College) and Rishabh Singh (Brown University). *Admitted* covers the end-to-end process of getting your dream admit: - Dive deep into a specific topic — such as writing your SOP, preparing for interviews, securing your visa — with actionable templates and personal stories in each chapter. - Read insights from 10+ past graduates sharing tips and tricks on the application process. - Get access to a Google Drive

folder filled with resources: high-quality SOP and resume samples, list of scholarships, tracking tool, 400+ useful links, and more. - Immerse yourself in beautiful design with 75+ illustrations and other visual vignettes. Go ahead and take a look inside the book! - Learn concepts from psychology, history, and behavioral economics seamlessly weaved into the text. Admitted does not tell you what to do. Rather, it teaches you how to think and sets you up for success even after getting admitted. Save yourself countless hours spent finding the right resource by purchasing the book and begin your journey today!

Advances in Simulation, Product Design and Development - M. S. Shunmugam 2020-11-07

This volume comprises select proceedings of the 7th International and 28th All India Manufacturing Technology, Design and Research conference 2018 (AIMTDR 2018). The papers in this volume discuss simulations based on techniques such as finite element method (FEM) as well as soft computing based techniques such as artificial neural network (ANN), their optimization and the development and design of mechanical products. This volume will be of interest to researchers, policy makers, and practicing engineers alike.

Process Control Instrumentation Technology - Curtis D. Johnson 1982

This book gives readers an understanding and appreciation of some of the theories behind control system elements and operations--without advanced math or calculus. It also presents some of the practical details of how elements of a control system are designed and operated--without the benefit of on-the-job experience. Chapter topics include process control; analog and digital signal conditioning; thermal, mechanical, and optical sensors; controller principles; and control loop characteristics. For those in the industry who will need to design the elements of a control system from a practical, working perspective, and comprehend how these elements affect overall system operation and tuning.

Project Management - Jitesh J. Thakkar 2020-07-17

This volume discusses strategic and operational issues in executing projects. It provides both quantitative and qualitative treatment on key areas of project management, and addresses issues of scheduling, procurement, quality, risk and communications management. The beneficiaries of this volume will primarily be university students in Engineering and Business Management disciplines. The book also extends practical insights and will be useful to professionals working in manufacturing and service industries.

Occupational Physiology - Allan Toomingas 2016-04-19

In a clear and accessible presentation, Occupational Physiology focuses on important issues in the modern working world. Exploring major public health problems--such as musculoskeletal disorders and stress--this book explains connections between work, well-being, and health based on up-to-date research in the field. It provides useful methods for risk

assessment and guidelines on arranging a good working life from the perspective of the working individual, the company, and society as a whole. The book focuses on common, stressful situations in different professions. Reviewing bodily demands and reactions in eight selected common, but contrasting job types, the book explains relevant physiology in a novel way. Rather than being structured according to organs in the body, the book accepts the complex physiology of typical jobs and uses this as an entry. In addition to physiological facts, the book discusses risk factors for disorders and gives ideas on how to organize and design work and tasks so as to optimize health, work ability, and productivity. Although many books cover physiology, they are based on a traditional anatomical structure (e.g., addressing the physiology of the cardiovascular system, the gastrointestinal system, and so forth) and require readers to synthesize this knowledge into real-life complex applications. Occupational Physiology is, instead, structured around a number of typical jobs and explains their physiologies, as complex as they may be. This approach, while still presenting the physiology needed to understand occupational life, demonstrates how to use this information in situations encountered in practice.

A TEXTBOOK OF CHEMICAL ENGINEERING THERMODYNAMICS - K. V. NARAYANAN 2013-01-11

Designed as an undergraduate-level textbook in Chemical Engineering, this student-friendly, thoroughly class-room tested book, now in its second edition, continues to provide an in-depth analysis of chemical engineering thermodynamics. The book has been so organized that it gives comprehensive coverage of basic concepts and applications of the laws of thermodynamics in the initial chapters, while the later chapters focus at length on important areas of study falling under the realm of chemical thermodynamics. The reader is thus introduced to a thorough analysis of the fundamental laws of thermodynamics as well as their applications to practical situations. This is followed by a detailed discussion on relationships among thermodynamic properties and an exhaustive treatment on the thermodynamic properties of solutions. The role of phase equilibrium thermodynamics in design, analysis, and operation of chemical separation methods is also deftly dealt with. Finally, the chemical reaction equilibria are skillfully explained. Besides numerous illustrations, the book contains over 200 worked examples, over 400 exercise problems (all with answers) and several objective-type questions, which enable students to gain an in-depth understanding of the concepts and theory discussed. The book will also be a useful text for students pursuing courses in chemical engineering-related branches such as polymer engineering, petroleum engineering, and safety and environmental engineering. New to This Edition • More Example Problems and Exercise Questions in each chapter • Updated section on Vapour-Liquid Equilibrium in Chapter 8 to highlight the significance of equations of state approach • GATE Questions up to 2012 with answers

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