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Boiler Operation Engineering Questions and Answers [McGraw Hill Professional](#) A unique, fix-it-fast reference for boiler operators, inspectors, maintenance engineers, and technicians. Thoroughly updated to reflect the current ASME Boiler Code. Makes an ideal study aid for those taking the Boiler Operator's Exam--includes over 3,000 questions with answers, 150 solved numerical problems, and 410 helpful illustrations. **PRACTICAL BOILER OPERATION ENGINEERING AND POWER PLANT, FOURTH EDITION** [PHI Learning Pvt. Ltd.](#) The fourth edition of the book is richer in contents presenting updated information on the fundamental aspects of various processes related to thermal power plants. The major thrust in the book is given on the hands-on procedure to deal with the normal and emergency situations during plant operation. Beginning from the fundamentals, the book, explores the vast concepts of boilers, steam turbines and other auxiliary systems. Following a simple text format and easy-to-grasp language, the book explicates various real-life situation-related topics involving operation, commissioning, maintenance, electrical and instrumentation of a power plant. **NEW TO THE FOURTH EDITION** • The text now incorporates a new chapter on Environmental and Safety Aspects of Thermal Power Plants. • New sections on Softener, Water Treatment of Supercritical Boiler, Wet Mode and Dry Mode Operation of Supercritical Boiler, Electromatic Pressure Relief Valve, Pressure Reducing and Desuperheating (PRDS) System, Orsat Apparatus, and Safety Interlocks and Auto Control Logics in Boiler have been added in related chapters. • Several sections have been updated to provide the reader with the latest information. • A new appendix on Important Information on Power Generation has been incorporated into the text. Dealing with all the latest coverage, the book is written to address the requirements of the undergraduate students of power plant engineering. Besides this, the text would also cater to the needs of those candidates who are preparing for Boiler Operation Engineers (BOE) Examination and the undergraduate/postgraduate students who are pursuing courses in various power training institutes. The book will also be of immense use to the students of postgraduate diploma course in thermal power plant engineering. **KEY FEATURES** • Covers almost all the functional areas of thermal power plants in its systematically arranged topics. • Incorporates more than 500 self-test questions in chapter-end exercises to test the student's grasp of the fundamental concepts and BOE Examination preparation. • Involves numerous well-labelled diagrams throughout the book leading to easy learning. • Provides several solved numerical problems that generally arise during the functioning of thermal power plants. **Boiler Operations Questions and Answers** [McGraw-Hill Companies](#) Written in a concise question-and-answer format, this practical reference offers you expert solutions to the day-to-day problems encountered in boiler operations, water treatment, and steam generation. Included are more than 3,000 questions along with their answers, 140 solved numerical problems, and 410 helpful illustrations. An ideal study aid for the Boiler Operators Examination, this detailed sourcebook also contains case studies of problems involved in water treatment and combustion, and wherever necessary, provides explanations of basic concepts in boiler operations. An essential working tool for all boiler operators, inspectors, maintenance engineers, and technicians, this hands-on guide will give you the technical information and expertise required to solve any boiler problem with complete confidence! **Boilers for Power and Process** [CRC Press](#) Boiler professionals require a strong command of both the theoretical and practical facets of water tube-boiler technology. From state-of-the-art boiler construction to mechanics of firing techniques, **Boilers for Power and Process** augments seasoned engineers' already-solid grasp of boiler fundamentals. A practical explanation of theory, it d **Pressure Vessels Design and Practice** [CRC Press](#) With very few books adequately addressing ASME Boiler & Pressure Vessel Code, and other international code issues, **Pressure Vessels: Design and Practice** provides a comprehensive, in-depth guide on everything engineers need to know. With emphasis on the requirements of the ASME this consummate work examines the design of pressure vessel com **Engineering Thermodynamics** [Oxford University Press, USA](#) Starting with the basic concepts, the book gradually discusses the important topics like entropy, thermodynamic availability, properties of steam, real and ideal gas, and chemical equilibrium in the increasing order of complexity. It lays emphasis on the physical aspects of the subject matter in addition to the mathematical representation to develop an in-depth understanding of the subject. The focus of the book is to provide a clear exposition of the fundamental principles of thermodynamics by presenting adequate information in a lucid style to endow the beginners a reasonable understanding of the subject. The text covers syllabi requirements of almost all technical universities in India and will also cater to the needs of the graduate level students of the world over, and be

useful as a reference book to practicing engineers. Abundant worked-out examples, numerical problems, review questions, and multiple choice questions form the special feature of the book. **Basic Engineering Thermodynamics Boilers A Practical Reference** [CRC Press](#) Following the publication of the author's first book, **Boilers for Power and Process** by CRC Press in 2009, several requests were made for a reference with even quicker access to information. **Boilers: A Practical Reference** is the result of those requests, providing a user-friendly encyclopedic format with more than 500 entries and nearly the same number of supporting illustrations. Written for practicing engineers and dealing with practical issues rather than theory, this reference focuses exclusively on water tube boilers found in process industries and power plants. It provides broad explanations for the following topics: A range of boilers and main auxiliaries, as well as steam and gas turbines Traditional firing techniques—grates, oil/gas, and modern systems Industrial, utility, waste heat, MSW and bio-fuel-fired boilers, including supercritical boilers The scientific fundamentals of combustion, heat transfer, fluid flow, and more The basics of fuels, water, ash, high-temperature steels, structurals, refractory, insulation, and more Additional engineering topics like boiler instruments, controls, welding, corrosion, and wear Air pollution, its abatement techniques and their effect on the design of boilers and auxiliaries Emerging technologies such as carbon capture, oxy-fuel combustion, and PFBC This reference covers almost every topic needed by boiler engineers in process and power plants. An encyclopedia by design and a professional reference book by focus and size, this volume is strong on fundamentals and design aspects as well as practical content. The scope and easy-to-navigate presentation of the material plus the numerous illustrations make this a unique reference for busy design, project, operation, and consulting engineers. **Questions and Answers on Boiler Feed-water Conditioning The Design and Engineering of Curiosity How the Mars Rover Performs Its Job** [Springer](#) This book describes the most complex machine ever sent to another planet: Curiosity. It is a one-ton robot with two brains, seventeen cameras, six wheels, nuclear power, and a laser beam on its head. No one human understands how all of its systems and instruments work. This essential reference to the Curiosity mission explains the engineering behind every system on the rover, from its rocket-powered jetpack to its radioisotope thermoelectric generator to its fiendishly complex sample handling system. Its lavishly illustrated text explains how all the instruments work -- its cameras, spectrometers, sample-cooking oven, and weather station -- and describes the instruments' abilities and limitations. It tells you how the systems have functioned on Mars, and how scientists and engineers have worked around problems developed on a faraway planet: holey wheels and broken focus lasers. And it explains the grueling mission operations schedule that keeps the rover working day in and day out. **Emerging Trends in Electrical, Communications, and Information Technologies Proceedings of ICECIT-2018** [Springer Nature](#) This book includes original, peer-reviewed research from the 3rd International Conference on Emerging Trends in Electrical, Communication and Information Technologies (ICECIT 2018), held at Srinivasa Ramanujan Institute of Technology, Ananthapuramu, Andhra Pradesh, India in December 2018. It covers the latest research trends and developments in the areas of Electrical Engineering, Electronic and Communication Engineering, and Computer Science and Information. **Reverse Engineering of Rubber Products Concepts, Tools, and Techniques** [CRC Press](#) Reverse engineering is widely practiced in the rubber industry. Companies routinely analyze competitors' products to gather information about specifications or compositions. In a competitive market, introducing new products with better features and at a faster pace is critical for any manufacturer. **Reverse Engineering of Rubber Products: Concepts, Tools, and Techniques** explains the principles and science behind rubber formulation development by reverse engineering methods. The book describes the tools and analytical techniques used to discover which materials and processes were used to produce a particular vulcanized rubber compound from a combination of raw rubber, chemicals, and pigments. **A Compendium of Chemical, Analytical, and Physical Test Methods** Organized into five chapters, the book first reviews the construction of compounding ingredients and formulations, from elastomers, fillers, and protective agents to vulcanizing chemicals and processing aids. It then discusses chemical and analytical methods, including infrared spectroscopy, thermal analysis, chromatography, and microscopy. It also examines physical test methods for visco-elastic behavior, heat aging, hardness, and other features. A chapter presents important reverse engineering concepts. In addition, the book includes a wide variety of case studies of formula reconstruction, covering large products such as tires and belts as well as smaller products like seals and hoses. **Get Practical Insights on Reverse Engineering from the Book's Case Studies** Combining scientific principles and practical advice, this book brings together helpful insights on reverse engineering in the rubber industry. It is an invaluable reference for scientists, engineers, and researchers who want to produce comparative benchmark information, discover formulations used throughout the industry, improve product performance, and shorten the product development cycle. **Handbook of Maintenance Management and Engineering** [Springer Science & Business Media](#) To be able to compete successfully both at national and international levels, production systems and equipment must perform at levels not even thinkable a decade ago. Requirements for increased product quality, reduced throughput time and enhanced operating effectiveness within a rapidly changing customer demand environment continue to demand a high maintenance performance. In some cases, maintenance is required to increase operational effectiveness and revenues and customer satisfaction while reducing capital, operating and support costs. This may be the largest challenge facing production enterprises these days. For this, maintenance strategy is required to be aligned with the production logistics and also to keep updated with the current best practices. Maintenance has become a multidisciplinary activity and one may come across situations in which maintenance is the responsibility of people whose training is not engineering. This handbook aims to assist at different levels of understanding whether the manager is an engineer, a production manager, an experienced maintenance practitioner or a beginner. Topics selected to be included in this handbook cover a wide range of issues in the area of maintenance management and engineering to cater for all those interested in maintenance whether practitioners or researchers. This handbook is divided into 6 parts and contains 26 chapters covering a wide range of topics related to maintenance management and engineering. **Engineering Thermodynamics A Computer Approach (SI Units Version)** [Jones & Bartlett Learning](#) Intended as

a textbook for “applied” or engineering thermodynamics, or as a reference for practicing engineers, the book uses extensive in-text, solved examples and computer simulations to cover the basic properties of thermodynamics. Pure substances, the first and second laws, gases, psychrometrics, the vapor, gas and refrigeration cycles, heat transfer, compressible flow, chemical reactions, fuels, and more are presented in detail and enhanced with practical applications. This version presents the material using SI Units and has ample material on SI conversion, steam tables, and a Mollier diagram. A CD-ROM, included with the print version of the text, includes a fully functional version of QuickField (widely used in industry), as well as numerous demonstrations and simulations with MATLAB, and other third party software.

Distillation: Equipment and Processes [Academic Press](#) **Distillation: Equipment and Processes**—winner of the 2015 PROSE Award in Chemistry & Physics from the Association of American Publishers—is a single source of authoritative information on all aspects of the theory and practice of modern distillation, suitable for advanced students and professionals working in a laboratory, industrial plants, or a managerial capacity. It addresses the most important and current research on industrial distillation, including all steps in process design (feasibility study, modeling, and experimental validation), together with operation and control aspects. This volume features an extra focus on distillation equipment and processes. Winner of the 2015 PROSE Award in Chemistry & Physics from the Association of American Publishers Practical information on the newest development written by recognized experts Coverage of a huge range of laboratory and industrial distillation approaches Extensive references for each chapter facilitates further study Advanced Technologies, Systems, and Applications II Proceedings of the International Symposium on Innovative and Interdisciplinary Applications of Advanced Technologies (IAT) [Springer](#) This book presents innovative and interdisciplinary applications of advanced technologies. It includes the scientific outcomes of the 9th DAYS OF BHAAAS (Bosnian-Herzegovinian American Academy of Arts and Sciences) held in Banja Vrućica, Teslić, Bosnia and Herzegovina on May 25-28, 2017. This unique book offers a comprehensive, multidisciplinary and interdisciplinary overview of the latest developments in a broad section of technologies and methodologies, viewed through the prism of applications in computing, networking, information technology, robotics, complex systems, communications, energy, mechanical engineering, economics and medicine, to name just a few.

Standard Boiler Operators' Questions and Answers [Advances in Mechanical Engineering Select Proceedings of ICAME 2020](#) [Springer Nature](#) This book presents select peer-reviewed proceedings of the International Conference on Advances in Mechanical Engineering (ICAME 2020). The contents cover latest research in several areas such as advanced energy sources, automation, mechatronics and robotics, automobiles, biomedical engineering, CAD/CAM, CFD, advanced engineering materials, mechanical design, heat and mass transfer, manufacturing and production processes, tribology and wear, surface engineering, ergonomics and human factors, artificial intelligence, and supply chain management. The book brings together advancements happening in the different domains of mechanical engineering, and hence, this will be useful for students and researchers working in mechanical engineering.

Confocal Raman Microscopy [Springer](#) This second edition provides a cutting-edge overview of physical, technical and scientific aspects related to the widely used analytical method of confocal Raman microscopy. The book includes expanded background information and adds insights into how confocal Raman microscopy, especially 3D Raman imaging, can be integrated with other methods to produce a variety of correlative microscopy combinations. The benefits are then demonstrated and supported by numerous examples from the fields of materials science, 2D materials, the life sciences, pharmaceutical research and development, as well as the geosciences.

Power Plant Engineering [New Age International](#) 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 Sustainable Waste Management: Policies and Case Studies 7th IconSWM—ISWMAW 2017, Volume 1 [Springer](#) The book presents high-quality research papers from the Seventh International Conference on Solid Waste Management (IconSWM 2017), held at Professor Jayashankar Telangana State Agricultural University, Hyderabad on December 15-17, 2017. The conference, an official side event of the high-level Intergovernmental Eighth Regional 3R Forum in Asia and the Pacific, aimed to generate scientific inputs into the policy consultation of the Forum co-organized by the UNCRD/UNDESA, MoEFCC India, MOUD India and MOEJ, Japan. Presenting research on solid waste management from more than 30 countries, the book is divided into three volumes and addresses various issues related to innovation and implementation in sustainable waste management, segregation, collection, transportation of waste, treatment technology, policy and strategies, energy recovery, life cycle analysis, climate change, research and business opportunities.

Boiler Control Systems Engineering [ISA](#) This book is for anyone who works with boilers: utilities managers, power plant managers, control systems engineers, maintenance technicians or operators. The information deals primarily with water tube boilers with Induced Draft (ID) and Forced Draft (FD) fan(s) or boilers containing only FD fans. It can also apply to any fuel-fired steam generator. Other books on boiler control have been published; however, they do not cover engineering details on control systems and the setup of the various control functions. **Boiler Control Systems Engineering** provides specific examples of boiler control including configuration and tuning, valve sizing, and transmitter specifications. This expanded and updated second edition includes drum level compensation equations, additional P&ID drawings and examples of permissive startup and tripping logic for gas, oil, and coal fired boilers. It also covers different control schemes for furnace draft control. NFPA 85 Code 2007 control system requirements are included, with illustrated examples of coal fired boilers, as well as information on the latest ISA-77 series of standards.

Boiler Operator's Handbook, Second Edition [Lulu Press, Inc](#) This book was written specifically for boiler plant operators and supervisors who want to learn how to lower plant operating costs, as well as how to

operate plants of all types and sizes more wisely. This newly revised edition provides guidelines for HRSGs, combined cycle systems, and environmental effects of boiler operation. Also included is a new chapter on refrigeration systems which addresses the environmental effects of inadvertent and intentional discharges of refrigerants. Going beyond the basics of "keeping the pressure up," the author explains in clear terms how to set effective priorities to assure optimum plant operation, including safety, continuity of operation, damage prevention, managing environmental impact, training replacement plant operators, logging and preserving historical data, and operating the plant economically.

Catalyst Preparation Science and Engineering [CRC Press](#) Improving the effectiveness of catalysts is the best way to ensure cleaner, more efficient industrial processes for a wide range of applications. **Catalyst Preparation: Science and Engineering** explores the optimization of catalytic materials through traditional and novel methods of catalyst preparation, characterization, and monitoring on laboratory and industrial scales. The book presents many key principles of heterogeneous catalyst preparation and the methods used to synthesize a catalyst with a particular composition and morphology. The first chapters examine the synthesis of bulk materials including amorphous and mesoporous oxide supports, heteropolyacids, and colloidal metals. Subsequent chapters focus on the syntheses of heterogeneous nanoscale materials, including those based on metal complex-substrate interactions and those using non-interacting precursors via viscous drying. The final chapters concentrate on pretreatment, drying, and finishing effects before concluding with a prognosis on future applications involving catalyst preparation and the technological advances necessary for continued progress. An ideal companion for scientists exploring the preparation of application-specific catalysts based on desired catalytic properties, **Catalyst Preparation: Science and Engineering** provides a balanced overview of important synthesis parameters to consider for good catalyst design.

Electric Power Quality [Springer Science & Business Media](#) In the present day deregulated power market electric power quality issues have become great concerns of utilities, end users and manufacturers. Worldwide researches are going on to address those issues. **Electric Power Quality** has evolved from the researches carried out by the authors. The key features of the book can be highlighted as follows: the contents focuses, on one hand, different power quality issues, their sources and effects and different related standards, which are required for students, researchers and practising engineers and, on the other hand, measurement techniques for different power quality parameters, the content level is designed in such a way that the concepts of different power quality issues in modern power system are built up first, followed by some existing and new measurement methods. This content should attract the students, researchers and practising engineers, the predominant features are Lucid but concise description of the subject, detailed new measurement techniques and **Electric Power Quality** is intended for graduate, postgraduate and researchers as well as for professionals in the related fields. At the end, a chapter has been added which deals with a concept of generation of harmonics in a power system and its components.

Industry 4.0 for SMEs Challenges, Opportunities and Requirements [Springer Nature](#) This open access book explores the concept of Industry 4.0, which presents a considerable challenge for the production and service sectors. While digitization initiatives are usually integrated into the central corporate strategy of larger companies, smaller firms often have problems putting Industry 4.0 paradigms into practice. Small and medium-sized enterprises (SMEs) possess neither the human nor financial resources to systematically investigate the potential and risks of introducing Industry 4.0. Addressing this obstacle, the international team of authors focuses on the development of smart manufacturing concepts, logistics solutions and managerial models specifically for SMEs. Aiming to provide methodological frameworks and pilot solutions for SMEs during their digital transformation, this innovative and timely book will be of great use to scholars researching technology management, digitization and small business, as well as practitioners within manufacturing companies.

Textbook of Nanoscience and Nanotechnology [Springer Science & Business Media](#) This book is meant to serve as a textbook for beginners in the field of nanoscience and nanotechnology. It can also be used as additional reading in this multifaceted area. It covers the entire spectrum of nanoscience and technology: introduction, terminology, historical perspectives of this domain of science, unique and widely differing properties, advances in the various synthesis, consolidation and characterization techniques, applications of nanoscience and technology and emerging materials and technologies.

New Trends in the Use of Artificial Intelligence for the Industry 4.0 [BoD - Books on Demand](#) Industry 4.0 is based on the cyber-physical transformation of processes, systems and methods applied in the manufacturing sector, and on its autonomous and decentralized operation. Industry 4.0 reflects that the industrial world is at the beginning of the so-called Fourth Industrial Revolution, characterized by a massive interconnection of assets and the integration of human operators with the manufacturing environment. In this regard, data analytics and, specifically, the artificial intelligence is the vehicular technology towards the next generation of smart factories. Chapters in this book cover a diversity of current and new developments in the use of artificial intelligence on the industrial sector seen from the fourth industrial revolution point of view, namely, cyber-physical applications, artificial intelligence technologies and tools, Industrial Internet of Things and data analytics. This book contains high-quality chapters containing original research results and literature review of exceptional merit. Thus, it is in the aim of the book to contribute to the literature of the topic in this regard and let the readers know current and new trends in the use of artificial intelligence for the Industry 4.0.

Ecological Wisdom Inspired Restoration Engineering [Springer](#) This book focuses on ecological wisdom inspired restoration engineering through theories, hypotheses, policies, practical understanding, and case studies. Understanding nature's processes is a prerequisite for the healthy and sustainable functioning of a habitable Earth. As such, the book provides a guide for readers seeking to understand and build sustainable, urban socio-ecological systems using restoration technologies based on wisdom. Motivated by recent rapid advances in restoration engineering, such as the role of green building materials in urban infrastructures, and developing sustainable landscapes to benefit the environment, economy and communities, it is an essential reference on the most promising innovative technologies. It discusses engineering methods and practices in the restoration of soil, water, heritage sites, and other ecosystems, as well as the development and applications of green building materials. It presents a

holistic and systematic approach that utilizes natural resources and the concept of ecological wisdom to reap sustainable environmental, economic and social benefits to fulfill the concept of living in harmony with nature. This book is a valuable resource for civil- and environmental engineering researchers as well as organizations engaged in eco-restoration practices. **Basics of Boiler and HRSG Design** [Pennwell Corporation](#) A excellent primer for power plant professionals who have to wear many hats and need a practical explanation of the design and basic operation of conventional steam generating boilers and HRSGs without having to wade through technical material. Buecker uses anecdotes and humor to liven up what would otherwise be considered a dry subject. No other book explains the fundamentals of boilers and HRSGs without going into technical depths that are not always appropriate.

Thermodynamics An Engineering Approach The 4th Edition of Cengel & Boles **Thermodynamics:An Engineering Approach** takes thermodynamics education to the next level through its intuitive and innovative approach. A long-time favorite among students and instructors alike because of its highly engaging, student-oriented conversational writing style, this book is now the most widely adopted thermodynamics text in the U.S. and in the world. **INDIA'S NEW CAPITALISTS** Caste, Business, and Industry in a Modern Nation [Hachette UK](#) It's no secret that certain social groups have predominated India's business and trading history, with business traditionally being the preserve of particular 'Bania' communities. However, the past four or so decades have seen a widening of the social base of Indian capital, such that the social profile of Indian business has expanded beyond recognition, and entrepreneurship and commerce in India are no longer the exclusive bastion of the old mercantile castes. In this meticulously researched book - acclaimed for being the first social history to document and understand India's new entrepreneurial groups - Harish Damodaran looks to answer who the new 'wealth creators' are, as he traces the transitional entry of India's middle and lower peasant castes into the business world. Combining analytical rigour with journalistic flair, **India's New Capitalists** is an essential read for anyone seeking to understand the culture and evolution of business in contemporary South Asia.

Electronic Circuits Fundamentals and Applications [Routledge](#) Electronics explained in one volume, using both theoretical and practical applications. Mike Tooley provides all the information required to get to grips with the fundamentals of electronics, detailing the underpinning knowledge necessary to appreciate the operation of a wide range of electronic circuits, including amplifiers, logic circuits, power supplies and oscillators. The 5th edition includes an additional chapter showing how a wide range of useful electronic applications can be developed in conjunction with the increasingly popular Arduino microcontroller, as well as a new section on batteries for use in electronic equipment and some additional/updated student assignments. The book's content is matched to the latest pre-degree level courses (from Level 2 up to, and including, Foundation Degree and HND), making this an invaluable reference text for all study levels, and its broad coverage is combined with practical case studies based in real-world engineering contexts. In addition, each chapter includes a practical investigation designed to reinforce learning and provide a basis for further practical work. A companion website at <http://www.key2electronics.com> offers the reader a set of spreadsheet design tools that can be used to simplify circuit calculations, as well as circuit models and templates that will enable virtual simulation of circuits in the book. These are accompanied by online self-test multiple choice questions for each chapter with automatic marking, to enable students to continually monitor their own progress and understanding. A bank of online questions for lecturers to set as assignments is also available. **Interdisciplinary Research in Technology and Management Proceedings of the International Conference on Interdisciplinary Research in Technology and Management (IRTM, 2021), 26-28 February, 2021, Kolkata, India** [CRC Press](#) The conference on 'Interdisciplinary Research in Technology and Management' was a bold experiment in deviating from the traditional approach of conferences which focus on a specific topic or theme. By attempting to bring diverse inter-related topics on a common platform, the conference has sought to answer a long felt need and give a fillip to interdisciplinary research not only within the technology domain but across domains in the management field as well. The spectrum of topics covered in the research papers is too wide to be singled out for specific mention but it is noteworthy that these papers addressed many important and relevant concerns of the day. **Electronics Fundamentals and Applications** [New Age International](#) **The Control of Boilers** [Isc](#) A classic resource that helps reduce boiler operating costs through a detailed, comprehensive, and applicable explanation of all aspects of boiler processes. It presents the basics of boiler control, the interrelationships of the process characteristics, and the dynamics involved, with a significant emphasis on start-up, shut down, flame monitoring, and safety interlock measures. Designed for professionals with a good understanding of boiler jargon, thermodynamics, and math fundamentals. **Tissue Engineering Using Ceramics and Polymers** [CRC Press](#) Drawing a distinguished editors and international team of contributors, this book reviews the latest research and advances and how they can be used to develop treatments for disease states. An innovative and up-to-date reference, it begins with a discussion of general issues and then moves on to review characterization. Building on this foundation, later chapters analyze bone regeneration and specific types of tissue engineering and repair such as cardiac, intervertebral disc, skin, kidney and bladder tissue. The book concludes with coverage of themes such as nerve bioengineering and the micromechanics of hydroxyapatite-based biomaterials and tissue scaffolds. **Process Steam Systems A Practical Guide for Operators, Maintainers, and Designers** [John Wiley & Sons](#) Comprehensively describes the equipment used in process steam systems, good operational and maintenance practices, and techniques used to troubleshoot system problems Explains how an entire steam system should be properly designed, operated and maintained Includes chapters on commissioning and troubleshooting various process systems and problems Presents basic thermodynamics and heat transfer principles as they apply to good process steam system design Covers Steam System Efficiency Upgrades; useful for operations and maintenance personnel responsible for modifying their systems **A User's Guide to Vacuum Technology** [John Wiley & Sons](#) In the decade and a half since the publication of the Second Edition of **A User's Guide to Vacuum Technology** there have been many important advances in the field, including spinning rotor gauges, dry mechanical pumps, magnetically levitated turbo pumps, and ultraclean system designs. These, along with improved cleaning and assembly techniques have made contamination-free manufacturing a reality.

Designed to bridge the gap in both knowledge and training between designers and end users of vacuum equipment, the Third Edition offers a practical perspective on today's vacuum technology. With a focus on the operation, understanding, and selection of equipment for industrial processes used in semiconductor, optics, packaging, and related coating technologies, *A User's Guide to Vacuum Technology, Third Edition* provides a detailed treatment of this important field. While emphasizing the fundamentals and touching on significant topics not adequately covered elsewhere, the text avoids topics not relevant to the typical user. *Advances in Manufacturing and Industrial Engineering Select Proceedings of ICAPIE 2019* [Springer Nature](#) This book presents selected peer reviewed papers from the International Conference on Advanced Production and Industrial Engineering (ICAPIE 2019). It covers a wide range of topics and latest research in mechanical systems engineering, materials engineering, micro-machining, renewable energy, industrial and production engineering, and additive manufacturing. Given the range of topics discussed, this book will be useful for students and researchers primarily working in mechanical and industrial engineering, and energy technologies.