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“Process Plant Equipment Book is another great publication from Wiley as a reference book for final year students as well as those who will work or are working in chemical production plants and refinery...” -Associate Prof. Dr. Ramli Mat, Deputy Dean (Academic), Faculty of Chemical Engineering, Universiti Teknologi Malaysia “...give[s] readers access to both fundamental information on process plant equipment and to practical ideas, best practices and experiences of highly successful engineers from around the world... The book is illustrated throughout with numerous black & white photos and diagrams and also contains case studies demonstrating how actual process plants have implemented the tools and techniques discussed in the book. An extensive list of references enables readers to explore each individual topic in greater depth...”—Stainless Steel World and Valve World, November 2012 Discover how to optimize process plant equipment, from selection to operation to troubleshooting From energy to pharmaceuticals to food, the world depends on processing plants to manufacture the products that enable people to survive and flourish. With this book as their guide, readers have the information and practical guidelines needed to select, operate, maintain, control, and troubleshoot process plant equipment so that it is efficient, cost-effective, and reliable throughout its lifetime. Following the authors' careful explanations and instructions, readers will find that they are better able to reduce downtime and unscheduled shutdowns, streamline operations, and maximize the service life of processing equipment. Process Plant Equipment: Operation, Control, and Reliability is divided into three sections: Section One: Process Equipment Operations covers such key equipment as valves, pumps, cooling towers, conveyors,

and storage tanks Section Two: Process Plant Reliability sets forth a variety of tested and proven tools and methods to assess and ensure the reliability and mechanical integrity of process equipment, including failure analysis, Fitness-for-Service assessment, engineering economics for chemical processes, and process component function and performance criteria Section Three: Process Measurement, Control, and Modeling examines flow meters, process control, and process modeling and simulation Throughout the book, numerous photos and diagrams illustrate the operation and control of key process equipment. There are also case studies demonstrating how actual process plants have implemented the tools and techniques discussed in the book. At the end of each chapter, an extensive list of references enables readers to explore each individual topic in greater depth. In summary, this text offers students, process engineers, and plant managers the expertise and technical support needed to streamline and optimize the operation of process plant equipment, from its initial selection to operations to troubleshooting.

Revista Trip. Um olhar criativo para a diversidade, em reportagens de comportamento, esportes de prancha, cultura pop, viagens, além dos ensaios de Trip Girl e grandes entrevistas

With more than 1,000 high-quality radiographs and illustrations, this bestselling book visually demonstrates the basic principles of oral and maxillofacial radiology as well as effective clinical application. You'll be able to diagnose and treat patients effectively with the coverage of imaging techniques, including specialized techniques such as MRI and CT, and the comprehensive discussion of the radiographic interpretation of pathology. The book also covers radiation physics, radiation biology, and radiation safety and protection — helping you provide state-of-the-art

care! A consistent format makes it easy to follow and comprehend clinical material on each pathologic condition, including a definition, synonyms, clinical features, radiographic features, differential diagnosis, and management/treatment. Updated photos show new equipment and radiographs in the areas of intraoral radiographs, normal radiographic anatomy, panoramic imaging, and advanced imaging. Updated Digital Imaging chapter expands coverage of PSP plates and its use in cephalometric and panoramic imaging, examining the larger latitudes of photostimulable phosphor receptors and their linear response to the five orders of magnitude of x-ray exposure. Updated Guidelines for Prescribing Dental Radiographs chapter includes the latest ADA guidelines, and also discusses the European Guidelines. Updated information on radiographic manifestations of diseases in the orofacial region includes the latest data on etiology and diagnosis, with an emphasis on advanced imaging. Expert contributors include many authors with worldwide reputations. Cone Beam Computed Tomography chapter covers machines, the imaging process, and typical clinical applications of cone-beam imaging, with examples of examinations made from scans. Evolve website adds more coverage of cases, with more examples of specific issues.

Este e-book destaca a importância da Escala de Mokken pela sua praticidade, flexibilidade e robustez em relação aos modelos da TCT e da TRI. De forma simples e ilustrativa, sem perder o rigor matemático, este livro 'Escala de Mokken, TCT ou TRI: qual é a melhor opção?' é um convite para você apreciar mais uma contribuição relevante e original no desenvolvimento da Teoria de Resposta ao Item não Paramétrica. Keywords: Mokken Scale Analysis (MSA), Mokken models,

Loevinger's scalability coefficients, Complex survey samples, Nested structure.

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Vols. for 1970-71 includes manufacturers' catalogs. International Electronics Directory '90: The Guide to European Manufacturers, Agents and Applications, Part 2 focuses on information on manufacturers, agents, and applications. The book first presents a list of companies and abbreviations. The text then underscores a classified list of products and services. This includes electronics for office administration, aerospace industry, security and alarm systems, automobile industry, and banking; computers and ancillary equipment; consumer electronics; and electronics for environmental monitoring. Other products and services mentioned include electronics for textile machines, oceanology, metalworking industry, and packaging machines. The selection also provides an alphabetical list of products. This includes accelerometers, access control systems, backplanes, bank note counters, document scanners, drying equipment, flight data recorders, machine vision systems,

magnetic tape and cassette recorders, and underwater navigational equipment. The text is a valuable source of information for readers wanting to know about manufacturers, agents, and applications.

Selecting and implementing the right LMS for your organization can help you stay on top of compliance requirements, improve workflow processes, and streamline access to just-in-time e-learning and virtual delivery.

Foundations of factor analysis; Direct factor analysis methods; Derived factor solutions; Factor measurements.

Vol. for 1947 includes "A list of clandestine periodicals of World War II, by Adrienne Florence Muzzy."

Presents comprehensive coverage of process intensification and integration for sustainable design, along with fundamental techniques and experiences from the industry Drawing from fundamental techniques and recent industrial experiences, this book discusses the many developments in process intensification and integration and focuses on increasing sustainability via several overarching topics such as Sustainable Manufacturing, Energy Saving Technologies, and Resource Conservation and Pollution Prevention Techniques. Process Intensification and Integration for Sustainable Design starts discussions on: shale gas as an option for the production of chemicals and challenges for process intensification; the design and techno-economic analysis of separation units to handle feedstock variability in shale gas treatment; RO-PRO desalination; and techno-economic and environmental assessment of ultrathin polysulfone membranes for oxygen-enriched combustion. Next, it looks at process

intensification of membrane-based systems for water, energy, and environment applications; the design of internally heat-integrated distillation column (HIDiC); and graphical analysis and integration of heat exchanger networks with heat pumps. Decomposition and implementation of large-scale interplant heat integration is covered, as is the synthesis of combined heat and mass exchange networks (CHAMENs) with renewables. The book also covers optimization strategies for integrating and intensifying housing complexes; a sustainable biomass conversion process assessment; and more. Covers the many advances and changes in process intensification and integration Provides side-by-side discussions of fundamental techniques and recent industrial experiences to guide practitioners in their own processes Presents comprehensive coverage of topics relevant, among others, to the process industry, biorefineries, and plant energy management Offers insightful analysis and integration of reactor and heat exchanger network Looks at optimization of integrated water and multi-regenerator membrane systems involving multi-contaminants Process Intensification and Integration for Sustainable Design is an ideal book for process engineers, chemical engineers, engineering scientists, engineering consultants, and chemists. Carbon dioxide sequestration is a technology that is being explored to curb the anthropogenic emission of CO₂ into the atmosphere. Carbon dioxide has been implicated in the global climate change and reducing them is a potential solution. The injection of

carbon dioxide for enhanced oil recovery (EOR) has the dual benefit of sequestering the CO₂ and extending the life of some older fields. Sequestering CO₂ and EOR have many shared elements that make them comparable. This volume presents some of the latest information on these processes covering physical properties, operations, design, reservoir engineering, and geochemistry for AGI and the related technologies.

Endodontic Radiology, 2nd edition, is a unique reference that examines all aspects of radiographic imaging related to endodontics. Dr. Bettina Basrani and a team of prestigious international contributors build upon traditional radiographic techniques and include the latest information available on digital radiographs and cone beam computed tomography. More than an overview of equipment, the book delves into radiographic interpretation, differential diagnosis, technical difficulties and special circumstances when taking radiographs during the endodontic treatment, and how to choose the correct radiographic technique to obtain the desired images. Chapters explain general radiographic techniques; intraoral techniques; standard radiographs and interpretation; digital radiographs and their manipulation, storage, and interpretation; and CBCT principles, techniques, and clinical considerations. The First Law of Thermodynamics states that energy can neither be created nor destroyed. Heat

exchangers are devices built for efficient heat transfer from one fluid to another. They are widely used in engineering processes and include examples such as intercoolers, preheaters, boilers and condensers in power plants. Heat exchangers are becoming more and more important to manufacturers striving to control energy costs. Process Heat Transfer Rules of Thumb investigates the design and implementation of industrial heat exchangers. It provides the background needed to understand and master the commercial software packages used by professional engineers for design and analysis of heat exchangers. This book focuses on the types of heat exchangers most widely used by industry, namely shell-and-tube exchangers (including condensers, reboilers and vaporizers), air-cooled heat exchangers and double-pipe (hairpin) exchangers. It provides a substantial introduction to the design of heat exchanger networks using pinch technology, the most efficient strategy used to achieve optimal recovery of heat in industrial processes. Utilizes leading commercial software important to professional engineers designing heat exchangers Illustrates design procedures using complete step-by-step worked examples Provides details on how to develop an initial configuration for a heat exchanger and how to systematically modify it to obtain a final design Abundant example problems solved manually and with the integration of computer

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