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Distillation Principles and Practice Second Edition covers all the main aspects of distillation including the thermodynamics of vapor/liquid equilibrium, the principles of distillation, the synthesis of distillation processes, the design of the equipment, and the control of process operation. Most textbooks deal in detail with the principles and laws of distilling binary mixtures. When it comes to multi-component mixtures, they refer to computer software nowadays available. One of the special features of the second edition is a clear and easy understandable presentation of the principles and laws of ternary distillation. The right understanding of ternary distillation is the link to a better understanding of multi-component distillation. Ternary distillation is the basis for a conceptual process design, for separating azeotropic mixtures by using an entrainer, and for reactive distillation, which is a rapidly developing field of distillation. Another special feature of the book is the design of distillation equipment, i.e. tray columns and packed columns. In practice, empirical know-how is preferably used in many companies, often in form of empirical equations, which are not even dimensionally correct. The objective of the proposed book is the derivation of the relevant equations for column design based on first principles. The field of column design is permanently

developing with respect to the type of equipment used and the know-how of two-phase flow and interfacial mass transfer.

The authors take a scalpel to South Africa's system of criminal justice during the Apartheid era. They focus on the case of the Sharpeville Six to analyse how criminal justice was used to make convictions easy to secure. Analysing the technicalities of the criminal law, as well as the quality of evidence and judicial reasoning in the case against the Six, Parker and Mokhesi-Parker also convey vividly through letters from death row, the sense these people made of their impending executions and how an international campaign to save their lives succeeded with only 18 hours to spare.

Dieses Handbuch vermittelt das aktuelle essentielle Wissen zur Planung automatisierungstechnischer Einrichtungen für verfahrenstechnische Anlagen. Das Werk hat sich in der Branche als Standardnachschatzwerk etabliert. In der bewährten, stringenten Struktur vermittelt auch die 4. Auflage das für die Planung benötigte Kernwissen. Darüber hinaus bietet es viele Hinweise auf weiterführende praxisnahe Spezialliteratur, auf Empfehlungen, Vorschriften, Normen und Richtlinien sowie auf nutzbare Computerprogramme. Für die Qualität und Praxisnähe der Darstellung steht das Autoren-Team von rund 50 ausgewiesenen und bekannten Experten auf Ihren Arbeitsfeldern. Das

Handbuch deckt das gesamte Feld der Prozessautomatisierung mit den folgenden Themen ab: - Situation der Prozessautomatisierung - Höhere Ebenen: Informationsverbund und MES - Funktionen der Prozessleitebene - Geräte der Prozessleitebene - Feldgeräte: Allgemeine Eigenschaften und Kommunikation - Prozessmess-technik (Sensorik) - Prozessstelltechnik (Aktorik) - Planen, Errichten und Betreiben automatisierungstechnischer Einrichtungen

"TRB's Transit Cooperative Research Program (TCRP) Report 111: Elements Needed to Create High-Ridership Transit Systems explores the strategies used by transit agencies to create high ridership. The report includes case studies that focus on the internal and external elements that contributed to successful ridership increases and examines how the transit agencies influenced or overcame internal and external challenges to increase ridership. The report includes a companion interactive CD-ROM that contains a database of individual transit agency ridership strategies linked to the strategies and examples presented in the report. The CD-ROM also contains a brochure that outlines the key elements identified in this report for increasing and sustaining ridership."--Publisher's website.

This book features a collection of revised and significantly extended versions of the papers

accepted for presentation at the 5th International Workshop on New Frontiers in Mining Complex Patterns, NFMCP 2016, held in conjunction with ECML-PKDD 2016 in Riva del Garda, Italy, in September 2016. The book is composed of five parts: feature selection and induction; classification prediction; clustering; pattern discovery; applications. Based on the print reference books, Chem Sources USA and Chem Sources International, this database contains information about commercially available chemical products. It includes the products of more than 8,000 chemical firms spanning 135 countries. You are able to search in three main categories: the Chemical database, the Application database and the Supplier database. The Chemical database lists over 250,000 chemical compounds. More than 150,000 of these chemicals currently have CAS Registry Numbers and over 60,000 have formulas. There are three ways to search the chemical database: by chemical name, by CAS Registry Number or by formula. You can submit full or partial names. Search results can be further narrowed by geographic region. The Application database allows you to search for specific trade name products or search by application (category) heading. The Trade Name and Classified Sections list over 25,000 chemical trade names. The Supplier database gives all pertinent contact data necessary for making direct inquiries to each chemical firm. Each supplier record includes: company name, address, phone, fax, email & web address (if applicable) and any sales offices. Suppliers can be searched by company name.

Accidents in industrial installations are random events. Hence they cannot be totally avoided. Only the probability of their occurrence may be reduced and their consequences be

mitigated. The book proceeds from hazards caused by materials and process conditions to indicating engineered and organizational measures for achieving the objectives of reduction and mitigation. Qualitative methods for identifying weaknesses of design and increasing safety as well as models for assessing accident consequences are presented. The quantitative assessment of the effectiveness of safety measures is explained. The treatment of uncertainties plays a role there. They stem from the random character of the accident and from lacks of knowledge of some of the phenomena to be addressed. The reader is acquainted with the simulation of accidents, with safety and risk analyses and learns how to judge the potential and limitations of mathematical modelling. Risk analysis is applied amongst others to “functional safety” and the determination of “appropriate distances” between industry and residential areas (land-use planning). This shows how it can be used as a basis for safety-relevant decisions. Numerous worked-out examples and case studies addressing real plants and situations deepen the understanding of the subjects treated and support self-study.

DS/ISO 14617-6ISO 14617-6:2002(E).ISO 14617-6:2002(E), Graphical Symbols for DiagramsSymboles Graphiques Pour Schémas. Measurement and control functions. Fonctions de mesurage et de contrôleMass Balances for Chemical EngineersWalter de Gruyter GmbH & Co KG

Engineering Asset Management 2010 represents state-of-the-art trends and developments in the emerging field of engineering asset management as presented at the Fifth World Congress on Engineering Asset Management (WCEAM). The proceedings of the WCEAM 2010 is an excellent reference for practitioners, researchers and students in the multidisciplinary field of asset management, covering topics such as: Asset condition monitoring and

intelligent maintenance Asset data warehousing, data mining and fusion Asset performance and level-of-service models Design and life-cycle integrity of physical assets Education and training in asset management Engineering standards in asset management Fault diagnosis and prognostics Financial analysis methods for physical assets Human dimensions in integrated asset management Information quality management Information systems and knowledge management Intelligent sensors and devices Maintenance strategies in asset management Optimisation decisions in asset management Risk management in asset management Strategic asset management Sustainability in asset management

This second edition of an established and well received book has been carefully revised, in many instances by the original authors, and enlarged by the addition of two completely new chapters. These deal with the use of computers in the paint industry and with the increasingly important subject of health and safety. The chapter on pigments has also been re-written by an author new to this edition. It was the editor's intention in the first edition to provide science graduates entering the paint industry with a bridge between academia and the applied science and technology of paints. The great strength and appeal of this book remains that it deals with the technology of paints and surface coatings while also providing a basic understanding of the chemistry and physics of coatings. Extensive revision of first edition New chapter on computers and modelling New chapter on health and safety This textbook summarizes the fundamentals of mass balance relevant for chemical engineers and an easy and comprehensive manner. Plenty of example calculations, schemes and flow diagrams facilitate the understanding. Case studies from relevant topics

such as sustainable chemistry illustrate the theory behind current applications.

Die Technischen Regeln für Trinkwasser-Installationen bestehen derzeit aus den europäischen Normen DIN EN 806 und DIN EN 1717 sowie nationalen Ergänzungsnormen wie DIN 1988 für Planung, Ausführung und Betrieb. Damit diese neue komplexe Konzeption aus europäischen und nationalen Regelwerken von den Anwendern verstanden wird, werden vom ZVSHK Kommentare verfasst. Die DIN EN 806-1 beschreibt technische Begriffe, grafische Symbole und Kurzzeichen, die übergreifend für alle anderen Normenteile von DIN EN 806, DIN EN 1717 und DIN 1988 anzuwenden sind. Alle Ausführungs- und Revisionszeichnungen sind zukünftig nach den Vorgaben dieser Norm zeichnerisch darzustellen.

Sphingolipids are fundamental to the structures of cell membranes, lipoproteins, and the stratum cornea of the skin. Many complex sphingolipids, as well as simpler sphingoid bases and derivatives, are highly bioactive as extra- and intracellular regulators of growth, differentiation, migration, survival, senescence, and numerous cellular responses to stress. This book reviews exciting new developments in sphingolipid biology/sphingolipidology that challenge our understanding of how multicellular organisms grow, develop, function, age, and die.

Construction Materials is a comprehensive textbook covering all raw materials and products related to the construction processes, and not only those applied to building structures. The book is organized to help readers achieve competent knowledge about construction materials. At the beginning of the book the author offers the general concepts, definitions, and standards adopted worldwide for these materials to be used along the book. The central part of the text covers the primary construction materials required to manufacture concrete and mortars, the most relevant construction materials in the last century. Expressly, concrete and mortar are treated in detail in dedicated chapters per component. In addition, the author addresses other relevant materials in construction such as ceramic materials, metals and alloys, bituminous materials, and geosynthetic materials. Finally, since the construction industry is one of the largest single waste producing sector in the world, the last chapter outlines the main types and characteristics of construction and demolition waste (e.g. recycled aggregates). The book appeals to students but also professionals interested in construction materials and construction and civil engineering.

Materials for Architects and Builders provides a clear and concise introduction to the broad range of materials used within the construction industry and covers the essential details of their manufacture, key

physical properties, specification and uses.

Understanding the basics of materials is a crucial part of undergraduate and diploma construction or architecture-related courses, and this established textbook helps the reader to do just that with the help of colour photographs and clear diagrams throughout. This new edition has been completely revised and updated to include the latest developments in materials research, new images, appropriate technologies and relevant legislation. The ecological effects of building construction and lifetime use remain an important focus, and this new edition includes a wide range of energy saving building components.

La revista decana de la prensa profesional de la construcción, líder del sector. Proporciona a los profesionales y empresas el conocimiento necesario para el desarrollo de sus proyectos y obras, tanto en su aspecto de edificación residencial, como en el industrial y comercial. Está dirigida a fabricantes y prescriptores; como arquitectos, aparejadores, instaladores, técnicos. All veterinary team members involved in the everyday care of horses that require anesthesia or special emergency care will benefit from this reliable and inclusive resource. This text provides all of the information needed to prepare, conduct, and monitor the administration of drugs in order to produce safe and effective anesthesia, treat pain, respond to adverse effects, and perform and monitor emergency and critical care treatment. It is the most comprehensive and

detailed book available on these subjects, addressing the needs and concerns of practitioners in both hospital and field settings. Discusses all aspects of equine anesthesia, including history, physiology, pharmacology, drug dosages, patient preparation, induction-maintenance-recovery of anesthesia management of potential complications, and more. Provides a detailed review of the respiratory and cardiovascular physiology of the horse. Provides thorough coverage of preoperative pain management in horses. Covers emergency medical care and managing anesthetic complications in both hospital and field situations. Includes information on the latest anesthetic drugs, including safe and effective protocols for different procedures, and the most up-to-date monitoring techniques. Each contributor is a recognized expert in his or her respective equine specialty, renowned for clinical as well as academic and research expertise. A complete update of all drug information and pain management techniques. The very latest research findings and clinical applications of anesthetic agents and techniques. The most recent developments in post-anesthetic care and monitoring. A chapter on intravenous anesthetic and analgesic adjuncts to inhalation anesthesia. A chapter on anesthesia and analgesia for donkeys and mules. A chapter on perioperative pain management. Many new illustrations as well as tables, graphs, boxes, key points, and summaries that make information instantly accessible.

Provides an introduction to modern object-oriented design principles and applications for the fast-growing

area of modeling and simulation Covers the topic of multi-domain system modeling and design with applications that have components from several areas Serves as a reference for the Modelica language as well as a comprehensive overview of application model libraries for a number of application domains

Understand the rapidly growing complexities of obstetric hematology and high-risk pregnancy management, with experts in the field. Now in its second edition, this comprehensive and essential guide focuses on providing the best support for patients and clinical staff, to prevent serious complications in pregnancy and the post-partum period for both mother and baby. Wide-ranging and detailed, the guide offers discussions on basic principles of best care, through to tackling lesser-known hematological conditions, such as cytopenias and hemoglobinopathies. Updated with color illustrations, cutting-edge research, accurate blood film reproductions, and practical case studies, the revised edition places invaluable advice into everyday context. This unique resource is essential reading for trainees and practitioners in obstetrics, anesthesia, and hematology, as well as midwives, nurses, and laboratory staff. Clarifying difficult procedures for disease prevention, the guide ensures safety when the stakes are high. Reflecting current evidence-based guidelines, the updated volume is key to improving pregnancy outcomes worldwide.

Hofman, a researcher with the Chile-based Economic Commission for Latin America and the Caribbean, uses growth accounting methods and previously unavailable

long-term series data to assess the economic performance of the region during the century from a comparative and historical perspective. In particular he compares Latin American economies to those of advanced capitalist economies, to newly industrialized economies, and to Spain and Portugal because of the historical ties. He looks at the reasons for the poor or negative growth during the 1980s and the apparent recovery in the 1990s and at such problems as debt, income inequality, high inflation, cyclical instability, and political and policy instability. Annotation copyrighted by Book News, Inc., Portland, OR

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