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MAXIM OBRIEN

Journal of Fermentation and Bioengineering Springer
The biannual ISAAC congresses provide information about recent progress in the whole area of analysis including applications and computation. This book constitutes the proceedings of the third meeting.
Thermal Engineering CRC Press
Originally published: New York: McGraw-Hill, 1971. 2nd ed. Includes a new introduction.
Surfactants in Solution SAP Press
The introductory chapter consists of four sections. In Sect. 1. 1 we reveal the c- rent situation in hospitals that is faced by the management. We address the general issue of personnel scheduling in the service industry in Sect. 1. 2. Then we motivate our research by considering physicians as the scheduling object. In particular, we show the complex nature of physician scheduling in a hospital environment. The focus of the research is presented in Sect. 1. 3. Finally, we conclude the chapter by illustrating the outline of the thesis. 1. 1 General Economic Situation in Hospitals The mounting pressure in the health care industry to reduce costs is forcing hos- tals and related facilities to take a closer look at their staf?ng policies (see [111]). A primary dif?culty in reducing personnel costs, the major component of the budget, is the variability in demand and the need to assign staff to ?xed shifts. Furthermore, government run facilities, especially those in the European Union, are seeing their budgets cut in terms of real dollars despite an aging and more acutely ill patient population (e. g. , see [96]). It has been reported that up to a third of the hospitals in Germanyplan a reductionin staff (see [91]). The schedulingprocess is furtherc- plicated by the generally recognized importance of taking individual preferences intoaccount. Moreattractiveschedulespromotejobsatisfaction,increaseproduct- ity,and reduceturnover(cf. [2]). However,withoutimprovedschedulingproce dures that better match supplyto demand,the level of care that theynow providewill soon become unsustainable. 1.
CFIN Springer
This volume comprises select papers presented during TRANSOILCOLD 2019. It covers the challenges and problems faced by engineers, designers, contractors, and infrastructure owners during planning and building of transport infrastructure in Arctic and cold regions. The contents of this book will be of use to researchers and professional engineers alike.
Water Management Challenges in Global Change Cengage Learning
Water Management Challenges in Global Change contains the proceedings of the 9th Computing and Control for the Water Industry (CCWI2007) and the Sustainable Urban Water Management (SUWM2007) conferences. The rationale behind these conferences is to improve the management of urban water systems through the development of computerbased methods. Issues such as economic globalisation, climate changes and water shortages call for a new approach to water systems management, which addresses the relevant technical, social and economic aspects. This collection represents the views of academic and industrial experts from a number of countries, who provide technical solutions to current water management problems and present a vision for addressing the global questions. The themes underlying many of the contributions include energy and material savings, water savings and the integration of different aspects of water management. The papers are grouped into three themes covering water distribution systems, sustainable urban water management and modelling of wastewater treatment plants. The water distribution topics cover asset and information management, planning, monitoring and control, hydraulic modelling of steady state and transients, water quality and treatment, demand and leakage management, optimisation, design and decision support systems, as well as reliability and security of water distribution systems. The sustainable urban water management topics include urban drainage systems, water reuse, social aspects of water management and also selected facets of water resources and irrigation. Computer control of wastewater treatment plants has been seen as less advanced than that of clean water systems. To address this imbalance, this book presents a number of modelling techniques developed specifically for these plants. Water Management Challenges in Global Change will prove to be invaluable to water and environmental engineering researchers and academics; managers, engineers and planners; and postgraduate students.
The Dynamics of Natural Satellites of the Planets Office of the Federal Register
This textbook supplement deconstructs some of the most commonly-encountered and challenging problems arising within engineering domains such as thermodynamics, separation processes, chemical kinetics, fluid dynamics, and engineering mathematics that are foundational to most engineering programs, as well as many courses in STEM disciplines. The book is organized into a series of 250 problems and worked solutions, with problems written in a format typical of exam questions. The book provides students ample practice in solving problems and sharpening their skill applying abstract theoretical concepts to solving exam problems. The presentation of detailed step-by-step explanations for each problem from start to finish in this book helps students follow the train of thought toward arriving at the final numerical solutions to the problems. Stands as an all-in-one, multidisciplinary, engineering problem-solving resource with comprehensive depth and breadth of coverage; Adopts a highly relevant question and answer pedagogy; Maximizes understanding through clear use of visuals; Emphasizes detailed, step-by-step explanations; Includes supplementary sections of cross-referenced concepts.
Russian Journal of Inorganic Chemistry John Wiley & Sons
This conference provides a forum for discussion of the advances in the theory and practice of crystallization as it relates to the production of bulk crystalline materials.
Encyclopedia of Surface and Colloid

Science - CRC Press
Markov chains make it possible to predict the future state of a system from its present state ignoring its past history. Surprisingly, despite the widespread use of Markov chains in many areas of science and technology, their applications in chemical engineering have been relatively meager. A possible reason for this phenomenon might be that books containing material on this subject have been written in such a way that the simplicity of Markov chains has been shadowed by the tedious mathematical derivations. Thus, the major objective of writing this book has been to try to change this situation. There are many advantages, detailed in Chapter 1, of using the discrete Markov-chain model in chemical engineering. Probably, the most important advantage is that physical models can be presented in a unified description via state vector and a one-step transition probability matrix. Consequently, a process is demonstrated solely by the probability of a system to occupy or not occupy a state. The book has been written in an easy and understandable form, where complex mathematical derivations are abandoned. The fundamentals of Markov chains are presented in Chapter 2 with examples from the bible, art and real life problems. An extremely wide collection is given of examples viz., reactions, reactors, reactions and reactors as well as combined processes, including their solution and a graphical presentation of it, all of which demonstrates the usefulness of applying Markov chains in chemical engineering.
Properties of Aqueous Solutions of Electrolytes Dynamite
4LTR Press solutions give students the option to choose the format that best suits their learning preferences. This option is perfect for those students who focus on the textbook as their main course resource. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.
The Code of Federal Regulations of the United States of America Routledge
Explains the fundamental theory and mathematics of water and wastewater treatment processes By carefully explaining both the underlying theory and the underlying mathematics, this text enables readers to fully grasp the fundamentals of physical and chemical treatment processes for water and wastewater. Throughout the book, the authors use detailed examples to illustrate real-world challenges and their solutions, including step-by-step mathematical calculations. Each chapter ends with a set of problems that enable readers to put their knowledge into practice by developing and analyzing complex processes for the removal of soluble and particulate materials in order to ensure the safety of our water supplies. Designed to give readers a deep understanding of how water treatment processes actually work, Water Quality Engineering explores: Application of mass balances in continuous flow systems, enabling readers to understand and predict changes in water quality Processes for removing soluble contaminants from water, including treatment of municipal and industrial wastes Processes for removing particulate materials from water Membrane processes to remove both soluble and particulate materials Following the discussion of mass balances in continuous flow systems in the first part of the book, the authors explain and analyze water treatment processes in subsequent chapters by setting forth the relevant mass balance for the process, reactor geometry, and flow pattern under consideration. With its many examples and problem sets, Water Quality Engineering is recommended as a textbook for graduate courses in physical and chemical treatment processes for water and wastewater. By drawing together the most recent research findings and industry practices, this text is also recommended for professional environmental engineers in search of a contemporary perspective on water and wastewater treatment processes.
Engineering Problems for Undergraduate Students Springer Science & Business Media
This collection of papers covers many topics in the area of mineral processing, such as: physical enrichment processing; fine particle processing; flotation fundamentals and technology; industrial minerals processing; and waste treatment and utilization.
14th International Symposium on Industrial Crystallization CRC Press
This volume chronicles the proceedings of the 8th International Symposium on Surfactants in Solution (SIS) held in Gainesville, FL, June 10-15, 1990. This series of symposia have been smoothly running since 1976, but the appellation "Surfactants in Solution" was used for the first time in 1982 in Lund. Since then our logo "SIS" has become very familiar to everyone involved in surfactants. In Lund the meeting was billed as the Fourth International Symposium on Surfactants in Solution. Earlier three events were held under different rubrics, but proceedings of all these symposia, except the 7th SIS held in Ottawa in 1988, have been properly documented. As a matter of fact so far 10 volumes have appeared under the title "Surfactants in Solution". 1,2,3 The program for the 9th SIS was very comprehensive and many ramifications of surfactants were covered, and it was a veritable international event. It contained a total of 384 papers by 869 authors from practically every corner of our planet. Just the sheer number of papers is a testimonial to the high tempo of research and tremendous interest in this wonderful class of materials. As in the past, there were plenary lectures (5), invited talks (37), oral presentations (195) and poster presentations (147). The plenary lectures were given by Prof. J. Th. G. Overbeek, Prof. C. A. Bunton, Prof. H. Ti Tien and Dr. J. Swalen. The lecture by Prof. Overbeek, the doyen of surface and colloid science, was a real treat.
Central Finance and SAP S/4HANA Springer Nature
The Dynamics of Natural Satellites of the Planets is an accessible reference for understanding the celestial mechanics of planetary moons through the lens of both theory and observation. Based on decades of research by the author, the book utilizes state-of-the-art observations of the natural satellites in the solar system to establish models, measurements and calculations to better understand the theory of the satellite movement and dynamics. It presents an extensive set of study methods and results on the motion of natural satellites of the planets and includes reviews and references to related publication for further explanation. By relating observations to numerical theory, the book serves as a quick and comprehensive reference for applying the theory of orbital dynamics to observational data on orbits and physical properties of the natural satellites in order to formulate state-of-the-art explanations and models, particularly for determining the parameters of satellite motion. Combines astronomy and celestial mechanics, providing astrometric data from observations to inform methods and models for predicting natural satellite dynamics Includes both theory and observation in one place and presents new models based on observations Organized into small sections, each providing specific measurements, calculations or models, making it a quick and comprehensive reference
Applications of Markov Chains in Chemical Engineering World Scientific
Refinement is one of the cornerstones of the formal approach to software

engineering, and its use in various domains has led to research on new applications and generalisation. This book brings together this important research in one volume, with the addition of examples drawn from different application areas. It covers four main themes: Data refinement and its application to Z Generalisations of refinement that change the interface and atomicity of operations Refinement in Object-Z Modelling state and behaviour by combining Object-Z with CSP Refinement in Z and Object-Z: Foundations and Advanced Applications provides an invaluable overview of recent research for academic and industrial researchers, lecturers teaching formal specification and development, industrial practitioners using formal methods in their work, and postgraduate and advanced undergraduate students. This second edition is a comprehensive update to the first and includes the following new material: Early chapters have been extended to also include trace refinement, based directly on partial relations rather than through totalisation Provides an updated discussion on divergence, non-atomic refinements and approximate refinement Includes a discussion of the differing semantics of operations and outputs and how they affect the abstraction of models written using Object-Z and CSP Presents a fuller account of the relationship between relational refinement and various models of refinement in CSP Bibliographic notes at the end of each chapter have been extended with the most up to date citations and research

Cfin 5 Springer Science & Business Media
Properties of Aqueous Solutions of Electrolytes is a handbook that systematizes the information on physico-chemical parameters of multicomponent aqueous electrolyte solutions. This important data collection will be invaluable for developing new methods for more efficient chemical technologies, choosing optimal solutions for more effective methods of using raw materials and energy resources, and other such activities. This edition, the first available in English, has been substantially revised and augmented. Many new tables have been added because of a significantly larger list of electrolytes and their properties (electrical conductivity, boiling and freezing points, pressure of saturated vapors, activity and diffusion coefficients). The book is divided into two sections. The first section provides tables that list the properties of binary aqueous solutions of electrolytes, while the second section deals with the methods for calculating their properties in multicomponent systems. All values are given in PSI units or fractional and multiple units. Metrological characteristics of the experimental methods used for the determination of physico-chemical parameters are indicated as a relative error and those of the computational methods as a relative error or a root-mean square deviation.

Computational Intelligence in Economics and Finance Elsevier
The biannual ISAAC congresses provide information about recent progress in the whole area of analysis including applications and computation. This book constitutes the proceedings of the third meeting.

Analysis of Human Genetic Linkage Courier Corporation
Introduction and basic genetic principles; Genetic loci genetic polymorphisms; Aspects of statistical inference; Basics of linkage analysis; The informativeness of family data; Multipoint linkage analysis; Penetrance; Quantitative phenotypes; Numerical and computerized methods; Variability of the recombination fraction; Inconsistencies; Linkage analysis with mendelian disease loci; Nonparametric methods; Two-locus inheritance; Complex traits.

Handbook of Membrane Separations World Scientific
The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the United States Federal Government.

Refinement in Z and Object-Z Elsevier
This comprehensive reference collects fundamental theories and recent research from a wide range of fields including biology, biochemistry, physics, applied mathematics, and computer, materials, surface, and colloid science-providing key references, tools, and analytical techniques for practical applications in industrial, agricultural, and forensic processes, as well as in the production of natural and synthetic compounds such as foods, minerals, paints, proteins, pharmaceuticals, polymers, and soaps.

Journal of General Chemistry of the U.S.S.R. in English Translation CRC Press
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