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phthalocyanine species (PcFeIIIIN3) to a benzylic radical rather than from the high-valent PcFeIV(N3)(Radical) species.

Figure Abstract (image)

Ansys (NASDAQ: ANSS) achieved certification of its cutting-edge multiphysics signoff solutions for TSMC's advanced N3 and N4 process ... Ansys is the global leader in engineering simulation.

Ansys Multiphysics Solutions Achieve Certification for TSMC's N3 and N4 Process Technologies

The closure of the Port of Durban and parts of the N2, N3 and N4 over recent days as a ... of these criminal acts need to be brought to book," the SAAFF said. It lamented, however, that ...

Time to act, is now, says SAAFF in response to looting, destruction

A recent study, affiliated with South Korea's Ulsan National Institute of Science and Technology (UNIST ... rather than from the high-valent $PcFeIV(N3)(Radical)$ species. Chemical engineers ...

News by Subject Technology & Engineering

There is, however, very little overlap between the top ten institutions identified in each office, although IBM and Eastman Kodak both feature in the USPTO and EPO top tens, and the Japan Science ...

Trends in nanotechnology patents

The Ministry of Education and Science of Russian Federation, the largest Russian Research Institutes and manufacturing enterprises (Bauman Moscow State Technical University, Special Design Bureau of ...

"Digital Solutions", SPE, LLC

A series of papers and a book, the 'Atlas of Fullerenes' (OUP ... We are collaborating on graph-theoretical aspects of fullerenes with Mathematics and Computer Science groups at the Universities of ...

Prof. Patrick W. Fowler

Traffic is also flowing on the N2 and N3. However, many trucking businesses were affected by the violence, which means truck supply is stretched in the region. Many truckers are also only prepared ...

Citrus industry rolls out recovery plan amid riots

Modern Ireland in 100 Artworks: 2015 - Silent Moves, by Aideen Barry, Emma O'Kane, Ridgepool Training Centre and Scannán Technologies ...

Modern Ireland in 100 Artworks

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Despite all the tech – and a sizeable 5,000mAh battery – the Mi 11 Ultra is still slimmer than the Samsung Galaxy S21 Ultra and iPhone 12 Pro Max which is a remarkable feat of engineering.

This updated and revised first-course textbook in applied probability provides a contemporary and lively post-calculus introduction to the subject of probability. The exposition reflects a desirable balance between fundamental theory and many applications involving a broad range of real problem scenarios. It is intended to appeal to a wide audience, including mathematics and statistics majors, prospective engineers and scientists, and those business and social science majors interested in the quantitative aspects of their disciplines. The textbook contains enough material for a year-long course, though many instructors will use it for a single term (one semester or one quarter). As such, three course syllabi with expanded course outlines are now available for download on the book's page on the Springer website. A one-term course would cover material in the core chapters (1-4), supplemented by selections from one or more of the remaining chapters on statistical inference (Ch. 5), Markov chains (Ch. 6), stochastic processes (Ch. 7), and signal processing (Ch. 8—available exclusively online and specifically designed for electrical and computer engineers, making the book suitable for a one-term class on random signals and noise). For a year-long course, core chapters (1-4) are accessible to those who have taken a year of univariate differential and integral calculus; matrix algebra, multivariate calculus, and engineering mathematics are needed for the latter, more advanced chapters. At the heart of the textbook's pedagogy are 1,100 applied exercises, ranging from straightforward to reasonably challenging, roughly 700 exercises in the first four "core" chapters alone—a self-contained textbook of problems introducing basic theoretical knowledge necessary for solving problems and illustrating how to solve the problems at hand – in R and MATLAB, including code so that students can create simulations. New to this edition • Updated and re-worked Recommended Coverage for instructors, detailing which courses should use the textbook and how to utilize different sections for various objectives and time constraints • Extended and revised instructions and solutions to problem sets • Overhaul of Section 7.7 on continuous-time Markov chains • Supplementary materials include three sample syllabi and updated solutions manuals for both instructors and students

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This book covers the theory of stratified flows, from basic concepts to recent developments in environmental fluid mechanics. State-of-the-art numerical techniques suited for stratified flows are given, along with results of recent research in the areas of environmental stratified flows. The book offers a unified view of stratified turbulent flows, from small-scale mixing to large-scale environmental phenomena, including detailed discussion on interaction between turbulence and internal gravity waves.

Hydraulic Power Plants is a textbook for engineering students which explains the construction of hydraulic power plants. The book presents the theory of the working process for each part, i.e. the kinematics and molecular dynamics of liquids flowing through hydraulic machines and systems. The information is presented in a simple manner necessary for understanding their operational conditions and basic numerical relationships. The chapters explain concepts with several drawings and charts to aid the reader, along with relevant specifications, working examples and solved problems, which can be applied in designing practice and maintenance of hydroelectric power plants, pumping stations and pump installations. Hydraulic Power Plants emphasizes the need of young engineers to acquire knowledge about efficiency in using the tools for the study and design for components of hydraulic power plants such as turbines, pumps and penstocks in a straightforward format, making it an ideal reference for introductory hydraulics and mechanical engineering courses.

'Innovative, well organised, readable and authoritative. This is a text that takes a modern and refreshing approach to a subject that is an essential ingredient on today's economic agenda' - Graham Beaver, Professor of Strategic Management, Visiting Professor to Queensland University of Technology, Fellow of the University of Warwick Not everyone who wants to study entrepreneurship has a theoretical background in business. Specifically written for students who do not have a strong business theory background, the authors of Entrepreneurship for Everyone bring alive the crucial issues for understanding this dynamic field. Going beyond the traditional textbook, the authors equip students with the necessary business knowledge and essential practical advice on applying that knowledge in the real world, to a range of types of industry - from sustainable industries, information technology, healthcare, biotechnology, as well as the musical and creative industries. Key entrepreneurship concepts that are covered include: - the theories and tools of creative thinking - market research - intellectual

property protection - relevant economics If you are coming to this area anew, and especially if you are interested in how entrepreneurship is applied, putting this text back on the shelf could cost you real success.

This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning, high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of and important algorithms for machine learning, algorithms and analysis for clustering, probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed including the law of large numbers, tail inequalities, analysis of random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and analysis of algorithms for data.

Food engineering is a required class in food science programs, as outlined by the Institute for Food Technologists (IFT). The concepts and applications are also required for professionals in food processing and manufacturing to attain the highest standards of food safety and quality. The third edition of this successful textbook succinctly presents the engineering concepts and unit operations used in food processing, in a unique blend of principles with applications. The authors use their many years of teaching to present food engineering concepts in a logical progression that covers the standard course curriculum. Each chapter describes the application of a particular principle followed by the quantitative relationships that define the related processes, solved examples, and problems to test understanding. The subjects the authors have selected to illustrate engineering principles demonstrate the relationship of engineering to the chemistry, microbiology, nutrition and processing of foods. Topics incorporate both traditional and contemporary food processing operations.

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