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The Glossary for Transport Statistics was published for the first time in 1994 with the purpose of assisting member countries during the collection of data on transport using the Common Questionnaire developed by the United Nations Economic ...

This comprehensive, well-illustrated, and easily accessible book documents the latest research outcomes concerning sexually transmitted infections (STIs) and describes important advances in their prevention, diagnosis and treatment. The changes in the epidemiology and clinical aspects of STIs that have occurred over the past decade are fully explored, with special attention to core groups and patients with immunological disorders. The emerging challenges associated with particular sexually transmitted pathogens, including C. trachomatis, N. gonorrhoeae, HPV, and HIV, are identified and discussed. Readers will find detailed information on modern preventive strategies, new laboratory and diagnostic techniques, and a range of innovative treatments, including vaccines, continuous antiretroviral therapy, and new drugs against hepatitis viruses. Attention is also drawn to new directions in biomedical research that promise clinical benefits for the patients and communities. The combination of a detailed clinical and research approach, with emphasis on new knowledge and innovative aspects, ensures that the book will be of value to a wide readership comprising both clinicians and researchers.

"You can be lonely anywhere, but there is a particular flavor to the loneliness that comes from living in a city, surrounded by thousands of strangers. The Lonely City is a roving cultural history of urban loneliness, centered on the ultimate city: Manhattan, that teeming island of gneiss, concrete, and glass. What does it mean to be lonely? How do we live, if we're not intimately involved with another human being? How do we connect with other people, particularly if our sexuality or physical body is considered deviant or damaged? Does technology draw us closer together or trap us behind screens? Olivia Laing explores these questions by travelling deep into the work and lives of some of the century's most original artists, among them Andy Warhol, David Wojnarowicz, Edward Hopper, Henry Darger and Klaus Nomi. Part memoir, part biography, part dazzling work of cultural criticism, The Lonely City is not just a map, but a celebration of the state of loneliness. It's a voyage out to a strange and sometimes lovely island, adrift from the larger continent of human experience, but visited by many - millions, say - of souls"--

Provides insight on both classical means and new trends in the application of power electronic and artificial intelligence techniques in power system operation and control This book presents advanced solutions for power system controllability improvement, transmission capability enhancement and operation planning. The book is organized into three parts. The first part describes the CSC-HVDC and VSC-HVDC technologies, the second part presents the FACTS devices, and the third part refers to the artificial intelligence techniques. All technologies and tools approached in this book are essential for power system development to comply with the smart grid requirements. Discusses detailed operating principles and diagrams, theory of modeling, control strategies and physical installations around the world of HVDC and FACTS systems Covers a wide range of Artificial Intelligence techniques that are successfully applied for many power system problems, from planning and monitoring to operation and control Each chapter is carefully edited, with drawings and illustrations that helps the reader to easily understand the principles of operation or application Advanced Solutions in Power Systems: HVDC, FACTS, and Artificial Intelligence is written for graduate students, researchers in transmission and distribution networks, and power system operation. This book also serves as a reference for professional software developers and practicing engineers.

Become a Python Programming Expert With Ease! Python is a simple yet powerful programming language that can enable you to start thinking like a programmer right from the beginning. It is very readable and the stress many beginners face about memorizing arcane syntax typically presented by other programming languages will not affect you at all. Conversely, you will be able to concentrate on learning concepts and paradigms of programming. This book shall introduce you to an easy way to learn Python in just 7 days and in this time, be able to complete your own projects! By reading the book and implementing what you learn herein, you will realize just why major institutions like NASA, Google, Mozilla, Yahoo, Dropbox, IBM, Facebook and many others prefer to use python in their core products, services and business processes. Let's begin.

The First Aid Manual is the UK's only fully authorised first aid guide, endorsed by St John Ambulance, St Andrew's First Aid and the British Red Cross and packed with step-by-step first aid advice. Used as the official training manual for the UK's leading first aid organisations' courses, the bestselling First Aid Manual covers all aspects of first aid, from emergency first aid and first aid for babies and children, to the latest guidelines on resuscitation, helping a drowning casualty, and snake bites. Find out how to treat over 100 different conditions from splinters and sprained ankles to strokes and unresponsiveness and how to use essential equipment including a defibrillator. Step-by-step photography, all shot in-situ to reflect real-life issues, shows you what to do in any situation. The ideal first aid book for you and your family, keep the First Aid Manual handy; it could be a life-saver. (Previous edition ISBN 9781409342007)

CAN (Controller Area Network) is a serial communication protocol that was originally developed for the automobile industry. CAN is far superior to conventional serial technologies such as RS232 in regards to functionality and reliability and yet CAN implementations are more cost effective. CANopen, a higher layer protocol based on CAN, provides the means to apply the ingenious CAN features to a variety of industrial-strength applications. Many users, for example in the field of medical engineering, opted for CANopen because they have to meet particularly stringent safety requirements. Similar requirements had to be considered by manufacturers of other equipment with very high safety or reliability requirements (e.g. robots, lifts and transportation systems). Providing a detailed look at both CAN and CANopen, this book examines those technologies in the context of embedded networks. There is an overview of general embedded networking and an introduction to the primary functionality provided by CANopen. Everything one needs to know to configure and operate a CANopen network using off-the-shelf components is described, along with details for those designers who want to build their own CANopen nodes. The wide variety of applications for CAN and CANopen is discussed, and instructions in developing embedded networks based on the protocol are included. In addition, references and examples using MicroCANopen, PCANopen Magic, and Vector's high-end development tools are provided.

This book endeavors to break the stereotype that basic electrical machine courses are limited only to transformers, DC brush machines, induction machines, and wound-field synchronous machines. It is intended to serve as a textbook for basic courses on Electrical Machines covering the fundamentals of the electromechanical energy conversion, transformers, classical electrical machines, i.e., DC brush machines, induction machines, wound-field rotor synchronous machines and modern electrical machines, i.e., switched reluctance machines (SRM) and permanent magnet (PM) brushless machines. In addition to academic research and teaching, the author has worked for over 18 years in US high-technology corporative businesses providing solutions to problems such as design, simulation, manufacturing and laboratory testing of large variety of electrical machines for electric traction, energy generation, marine propulsion, and aerospace electric systems.

Automated vehicles are set to transform the world. Automated driving vehicles are here already and undergoing serious testing in several countries around the world. This book explains the technologies in language that is easy to understand and accessible to all readers. It covers the subject from several angles but in particular shows the links to existing ADAS technologies already in use in all modern vehicles. There is a lot of hype in the media at the moment about autonomous or driverless cars, and while some manufacturers expect to have vehicles available from 2020, they will not soon take over and it will be some time before they are commonplace. However, it is very important to be ready for the huge change of direction that automated driving will take. This is the first book of its type available and complements Tom Denton's other books.

Chapter 1: Principles on membrane and membrane processes -- Chapter 2: Ultrafiltration -- Chapter 3: Microfiltration -- Chapter 4: Virus Filtration -- Chapter 5: Membrane chromatography -- Chapter 6: Membranes for the Preparation of Emulsions and Particles -- Chapter 7: Other Membrane Processes -- Chapter 8: Some Perspectives.

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A collection of 28 refereed papers grouped according to four broad topics: duality and optimality conditions, optimization algorithms, optimal control, and variational inequality and equilibrium problems. Suitable for researchers, practitioners and postgrads.

Provides information on using Ajax in building Web applications.

A Story of Big Tech Censorship and Bias and the Fight to Save Our Country The madness of Big Tech and their attempt to mold our reality into a version compatible with their globalist view of the world has never been portrayed better than in this chilling account by Google whistleblower, Zach Vorhies. As a senior engineer at Google for many years, Zach was aware of their bias, but watched in horror as the 2016 election of Donald Trump seemed to drive them into dangerous territory. The American ideal of an honest, hard-fought battle of ideas—when the contest is over, shaking hands and working together to solve problems—was replaced by a different, darker ethic alien to this country's history. Working with New York Times bestselling author Kent Heckenlively (Plague of Corruption), Vorhies and Heckenlively weave a tale of a tech industry once beloved by its central figure for its innovation and original thinking, turned into a terrifying intellectual wasteland of brutality and censorship. For Zach, an intuitive counter-thinker, brought up on the dystopian futures of George Orwell, Aldous Huxley, and Ray Bradbury, it was clear that Google was attempting nothing less than a seamless rewriting of the operating code of reality in which many would not be allowed to participate. Using Google's own internal search engine, Zach discovered their six-part plan for complete information dominance and released 950 pages of these documents to the world in June 2019 with an appearance with James O'Keefe on Project Veritas, which quickly became one of their most popular stories. From the globalist enclaves of Silicon Valley in 2016 in the wake of the Trump victory to the November 3, 2020 election, Zach provides a "you are there" perspective on these events and where we may be headed as a country. Read this book if you care about the future of America.

Nathan Vass has been driving a Seattle city bus at night for the last decade. He began writing a popular blog, The View from Nathan's Bus, about his encounters with the riders of the No. 7 bus, which cuts through the heart of the city's Rainier Valley, one of the most racially and ethnically diverse zip codes in the US. Nathan's blog entries grew into this book. His stories and photography illuminate an overlooked part of urban life and highlight the simple connections people make on a daily basis. His depictions of interactions on the city bus range from heartbreaking to hilarious to inspiring.

This indispensable manual is a complete guide to common medical abbreviations and symbols used by physicians. Abbreviations are arranged in alphabetical order for ease of reference and the text includes abbreviations that are similar but have different meanings. It ensures accurate interpretation of daily medical charts and records that are dictated or written by physicians and includes examples of medical abbreviations commonly used by physicians. Latin root words are italicized whenever appropriate and text covers common medical and Greek symbols used in medicine.(medical terminology, med term, abbreviations, Medical Abbreviations)

Twelve Years a Slave (1853) is a memoir and slave narrative by Solomon Northup, as told to and edited by David Wilson. Northup, a black man who was born free in New York, details his kidnapping in Washington, D.C. and subsequent sale into slavery. After having been kept in bondage for 12 years in Louisiana by various masters, Northup was able to write to friends and family in New York, who were in turn able to secure his release. Northup's account provides extensive details on the slave markets in Washington, D.C. and New Orleans and describes at length cotton and sugar cultivation on major plantations in Louisiana.

Despite the efficiency of current cancer treatments, cancer is still a deadly disease for too many. In 2008, 7.6 million people died of cancer; with the current development, it is estimated that the annual cancer death number will grow to 13 million by 2030. There is clearly a need for not only more research but also more innovative and out of the mainstream scientific ideas to discover and develop even better cancer treatments. This book presents the collective works published in the recent Special Issue entitled “Killing Cancer: Discovery and Selection of New Target Molecules”. These articles

comprise a selection of studies, ideas, and opinions that aim to facilitate knowledge, thoughts, and discussion about which biological and molecular mechanisms in cancer we should target and how we should target them.
Cluster chemistry is one of the recent, exciting areas of Inorganic Chemistry. The occurence of molecular clusters, like fullerene C60, constitutes a fundamental feature midway between the chemistry of isolated chemical compounds and that of the elements. Main features of the Cluster Chemistry of both main group and transition metal elements are treated in this book. The author highlights aspects releated to the synthesis, the structure, the special bonding and the reactivity of these species. The book is written as a textbook for senior undergraduate and postgraduate students. References in tables andillustrations permit the reader to reach relevant original information. Professor Gonzalez-Moraga fills a demand for a publication appropriate for dissemination and specially for teaching this exciting subject. From the Contents: Current Concepts in Modern Chemistry - Transition Metal Cluster Chemistry - Main Group-Transition Metal Mixed Clusters - Cluster Compounds of the Main Group Elements - Synthetic Analogues of the Active Sites of Iron-Sulfur Proteins.
Manetho was an Egyptian historian and priest from Sebennytos who lived during the Ptolemaic era, approximately during the 3rd century BC. His work, especially his chronology of the Pharoahs, is of great interest to Egyptologists.
This is an indispensable tool in the oil, gas and energy industries. The information included in this book has made writing tasks within energy and its related industries simpler and has, through the years, added consistency to industry reports. The 6th edition provides valuable supplementary information about Minerals Management Services Two Digit Area Prefix Standards and expands Miscellaneous Information and Symbols to include Directional Survey Methods, Frequently Cited Additives, Frequently Cited Fluids, and Lithology and Formation Names.
According to its definition, Synergetics is concerned with systems that produce macroscopic spatial, temporal, or functional structures. Autowaves are·a specific, yet very important, case of spatio-temporal structures. The term "autowave" was coined in the Soviet Union in analogy to the term "auto-oscillator". This is - perhaps too literal - translation of the Russian word "avto-ostsillyatory" (= self oscillator) which in its proper translation means "self-sustained oscillator". These are oscillators, e. g. , clocks, whose internal energy dissipation is compensa ted by a (more or less) continuous power input. Simi larly, the term "autowaves" de notes propagation effects - including waves - in active media, which provide spa tially distributed energy sources and thus may compensate dissipation. An example which is now famous is represented by spiral or concentric waves in a chemically active medium, undergoing the Belousov-Zhabotinsky reaction. This book provides the reader with numerous further examples from physics, chem istry, and biology - e. g. , autowaves of the heart. While the Belousov-Zhabotinsky reaction is now widely known, a number of very important results obtained in the Soviet Union are perhaps less well known. I am particularly glad that this book may help to make readers outside the Soviet Union acquainted with these important exper imental and theoretical findings which are presented in a way which elucidates the common principles underlying this kind of propagation effects. Professor V.
Atlas of Histology of the Juvenile Rat should be of interest to toxicologic pathologists, toxicologists, and other biological scientists who are interested in the histomorphology of juvenile rats. For several decades the laboratory rat has been used extensively in nonclinical toxicology studies designed to detect potential human toxicity of drugs, agrochemicals, industrial chemicals, and environmental hazards. These studies traditionally have involved young adult rats that are 8-10 weeks of age as studies are started. It is becoming increasingly apparent that children and young animals may have different responses to drug/chemical exposures, therefore, regulatory agencies are emphasizing toxicology studies in juvenile animals. While the histologic features of organs from young adult and aged laboratory rats are well known, less is known about the histologic features of organs from juvenile rats. Final histologic maturity of many organs is achieved postnatally, thus immature histologic features must be distinguished from chemical- or drug-related effects. While this postnatal organ development is known to exist as a general concept, detailed information regarding postnatal histologic development is not readily available. The Atlas includes organs that are typically sampled in nonclinical toxicology studies and presents the histologic features at weekly intervals, starting at birth and extending through postnatal day 42. Written and edited by highly experienced, board-certified toxicologic pathologists Includes more than 700 high-resolution microscopic images from organs that are typically examined in safety assessment toxicology studies Detailed figure legends and chapter narratives present the salient features of each organ at each time interval Figures are available for further study via Elsevier’s Virtual Microscope, which allows viewing of microscopic images at higher magnification Valuable resource for toxicologic pathologists who are confronted with interpretation of lesions in juvenile rats in situations where age-matched concurrent controls are not available for comparison, e.g., with unscheduled decedents Figures are available for further study on ScienceDirect with Virtual Microscope, which allows viewing of microscopic images at higher magnification
This text introduces the quantitative treatment of differential equations arising from modeling physical phenomena in chemical engineering. Coverage includes recent topics such as ODE-IVPs, emphasizing numerical methods and modeling of 1984-era commercial mathematical software.
Description-The book has been written in such a way that the concepts are explained in detail, givingadequate emphasis on examples. To make clarity on the topic, diagrams are given extensively throughout the text. Various questions are included that vary widely in type and difficulty to understand the text. This text is user-focused and has been highly updated including topics, pictures and examples. The book features the most current research findings in all aspects of information Security. From successfully implementing technology change to understanding the human factors in IT utilization, these volumes address many of the core concepts and organizational applications, implications of information technology in organizations.Key FeaturesA* Comprehensive coverage of various aspects of cyber security concepts.A* Simple language, crystal clear approach, straight forward comprehensible presentation. A* Adopting user-friendly classroom lecture style. A* The concepts are duly supported by several examples. A* Previous years question papers are also included. A* The important set of questions comprising of more than 90 questions with short answers are also included. Table of Contents:Chapter-1 : Introduction to Information SystemsChapter-2 : Information SecurityChapter-3 : Application SecurityChapter-4 : Security ThreatsChapter-5 :

Development of secure Information SystemChapter-6 : Security Issues In HardwareChapter-7 : Security PoliciesChapter-8 : Information Security Standards

This open access book provides a comprehensive overview of volcanic crisis research, the goal being to establish ways of successfully applying volcanology in practice and to identify areas that need to be addressed for future progress. It shows how volcano crises are managed in practice, and helps to establish best practices. Consequently the book brings together authors from all over the globe who work with volcanoes, ranging from observatory volcanologists, disaster practitioners and government officials to NGO-based and government practitioners to address three key aspects of volcanic crises. First, the book explores the unique nature of volcanic hazards, which makes them a particularly challenging threat to forecast and manage, due in part to their varying spatial and temporal characteristics. Second, it presents lessons learned on how to best manage volcanic events based on a number of crises that have shaped our understanding of volcanic hazards and crises management. Third, it discusses the diverse and wide-ranging aspects of communication involved in crises, which merge old practices and new technologies to accommodate an increasingly challenging and globalised world. The information and insights presented here are essential to tapping established knowledge, moving towards more robust volcanic crises management, and understanding how the volcanic world is perceived from a range of standpoints and contexts around the globe.

Deregulation has presented the electricity industry with many new challenges in power system planning and operation. Power engineers must understand the negative effect of harmonics on an electrical power network resulting from the extensive use of power electronics-based equipment. Serving as a complete reference to harmonics modelling, simulation and analysis, this book lays the foundations for optimising quality of power supply in the planning, design and operation phases. Features Include: * MATLAB function codes to aid the development of harmonic software and provide a hands-on approach to the theory presented. * Insight into the use of alternative, increased efficiency, harmonic domain techniques. * Examination of the harmonic modelling and analysis of FACTS, along with conventional and custom power plant equipment. * Clear presentation of the basic analytical approaches to harmonic theory and techniques for the resolution of harmonic distortion. Advanced undergraduate and postgraduate students in electrical engineering will benefit from the unique combination of practical examples and theoretical grounding. Practising power engineers, managers and consultants will appreciate the detailed coverage of engineering practice and power networks world-wide.

The Eleventh International Transport Theory Conference and Symposium in honor of the sixty-fifth birthday of Kenneth Case and the sixtieth birthday of Paul Zweifel was held in Blacksburg, Virginia, during May 22-26, 1989, on the campus of Virginia Polytechnic Institute and State University (Virginia Tech). This volume consists of a selection of the invited papers delivered at the Conference, and represents a cross section of the research currently being carried out in the field of transport theory. The volume is divided into two sections. The Symposium lectures are intended each to summarize an important aspect of transport theory, as well as to present timely new results of the author's research interest. The Conference lectures are contributions of each author on his current research. As has been the custom in this series of conferences, each lecturer was invited to participate by the organizing committee of the Conference: W. Greenberg, Virginia Tech, chairman; V. Boffi, Universita di Firenze; N. Corngold, California Institute of Technology; B. Ganapol, University of Arizona; N. McCormick, University of Washington; P. Nelson, Texas Tech; G. Pomraning, University of California, Los Angeles. The Eleventh International Transport Theory Conference was funded by generous con tributions from Science Applications International Corporation, R. Beyster, president, and from Virginia Polytechnic Institute and State University. Conference participants, and, we believe, researchers in this and related areas, are indebted to these organizations. We would like to thank Lamberto Rondoni, in the graduate program at Virginia Tech, for proofreading manuscripts of all the Italian contributors.

Continuous integration is a software engineering process designed to minimize "integration hell." It's a coordinated development approach that blends the best practices in software delivery. For .NET developers, especially, adopting these new approaches and the tools that support them can require rethinking the development process altogether. Continuous Integration in .NET is a tutorial for developers and team leads that teaches readers how to re-imagine their development strategy by creating a consistent continuous integration process. This book shows how to build on the tools they already know - .NET Framework and Visual Studio - and to use powerful software like MSBuild, Subversion, TFS 2010, Team City, CruiseControl.NET, NUnit, and Selenium. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

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