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RD3E51 - DUKE JASE

A concise introduction to the basics of open access, describing what it is (and isn't) and showing that it is easy, fast, inexpensive, legal, and beneficial. The Internet lets us share perfect copies of our work with a worldwide audience at virtually no cost. We take advantage of this revolutionary opportunity when we make our work "open access": digital, online, free of charge, and free of most copyright and licensing restrictions. Open access is made possible by the Internet and copyright-holder consent, and many authors, musicians, filmmakers, and other creators who depend on royalties are understandably unwilling to give their consent. But for 350 years, scholars have written peer-reviewed journal articles for impact, not for money, and are free to consent to open access without losing revenue. In this concise introduction, Peter Suber tells us what open access is and isn't, how it benefits authors and readers of research, how we pay for it, how it avoids copyright problems, how it has moved from the periphery to the

mainstream, and what its future may hold. Distilling a decade of Suber's influential writing and thinking about open access, this is the indispensable book on the subject for researchers, librarians, administrators, funders, publishers, and policy makers.

This is volume 4 of a fundamental four-volume work, translated from the considerably revised second edition. It should be of great value to engineers engaged in the design, manufacture and maintenance of machine tool equipment. It can also be used to advantage by the students of engineering institutes majoring in Process Engineering, Metal-Cutting Machine Tools or Cutting Tool Design. The first volume deals with the basic machine tools and special machine tools used in cutting tool production. The classification, type and size range, and designation of machine tools, employed in Soviet practice, are given in detail, together with the types of motion found in machine tools. Metal-cutting lathes, turret lathes, vertical boring machines, automatic and semiautomatic lathes, milling machines and many other types of machine tools are described. Special attention has been given to machine

tools designed for the production of cutting tools. These include general and single-purpose semiautomatic precision thread-grinding machines, automatic and semiautomatic tracer-controlled lathes with hydraulic controls, jig boring machines and specialized machine tools, as well as automatic transfer machines for cutting tool production. Volume two contains Parts Three and Four. Part Three deals with the kinematics of machine tools. This branch of machine tool design has been strictly systematized by the author and is set forth with exceptional clarity. The kinematic structures of a great many different types of machine tools, including the most complex gear-cutting machines, are analyzed by methods developed in the text which take into consideration the interrelation between the workpiece to be produced in the given machine tool. Part Four takes up hydraulic drives of machine tools. It contains all the theoretical and practical data required in the application of fluid power and control systems to machine tools. Volume Three contains Part Five and this deals with machine tool design proper. It is a comprehensive scientific treatment of the subject and is a revised and complemented version of a previous Russian edition which has become a reliable reference book for all Soviet machine tool engineers and has been translated into French. Such questions as performance criteria, basic design data, principal specifications and the development of the kinematic scheme of a new machine tool are dealt with in great detail. Design recommendations are given as well as the necessary calculation data for the basic elements of machine tools - speed and feed gearboxes, stepless drives, rapid traverse mechanisms, spindles and spindle bearings, mechanisms for rectilinear motion, small displacement and periodic motion, reversing de-

vices, beds columns, tables and other housing-type components, slideways and antifriction ways. The fourth and final volume covers Automatic Machine Tools and Transfer Machines, and Machine Tool Testing and Research, Parts Six and Seven of the complete work. Part Six deals with the fundamental principles of machine tool automation, the various systems of numerical programmed control that have found extensive application in modern machine tool design in the USSR and other countries. Much space has been given to automatic transfer machines, including in-line, rotary, and other types, their layout, features, design procedures, structure, and output. Current methods of testing and investigating the geometrical, kinematic, dynamic, and operational characteristics of machine tools are considered in Part Seven. Methods of testing the quality characteristics, of determining the corresponding criteria (indices), and of using contemporary apparatus for this purpose are dealt with.

This publication provides a structured approach to analyzing hazards to groundwater quality, assessing the risk they may cause for a specific supply, setting priorities in addressing these, and developing management strategies for their control. This book summarizes which pathogens and chemicals are relevant to human health, how they are transported, reduced, removed or retarded; provides practical guidance on characterizing the drinking-water catchment area and assessing potential health hazards; provides guidance on prioritising both hazards and management responses; presents key information on potential management actions and explains their integration into a comprehensive Water Safety Plan from catchment to consumer; and describes policy, land-use planning and implementation of pollution

prevention, groundwater, with overviews of specific management approaches applicable to agriculture, sanitation, industry, mining, military sites, waste disposal and traffic.--Publisher's description.

Publisher description

150 REAL GRE Quantitative Reasoning questions--direct from the test maker! The best way to prepare for the Quantitative Reasoning measure of the GRE revised General Test is with real GRE test questions--and that is what you will find in this unique guide! Specially created for you by ETS, it offers 150 actual Quantitative Reasoning questions with complete explanations. Plus, this guide includes a review of math topics likely to appear on the Quantitative Reasoning measure. Only ETS can show you exactly what to expect on the test. So for in-depth practice and accurate test preparation for the Quantitative Reasoning measure, this guide is your best choice! Look inside to find: Real GRE Quantitative Reasoning test questions arranged by content and question type--to help you build your test-taking skills. Plus, mixed practice sets. Answers and explanations for every question! GRE Math Review covering math topics you need to know for the test. ETS's own test-taking strategies: Valuable hints and tips to help you do your best on the test. Official information on the GRE Quantitative Reasoning measure: The facts about the test content, structure, scoring, and more--straight from ETS.

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Includes seven model TOEFL iBT tests with answer explanations and sample writing and speaking responses, academic skill re-

views, and more.The CD-ROM presents iBT versions of the book s 7 TOEFL practice tests plus a bonus TOEFL iBT, and more. The two MP3 CDs contain the audio for all practice exercises and the seven model exams."

This detailed introduction to transportation engineering is designed to serve as a comprehensive text for under-graduate as well as first-year master's students in civil engineering. In order to keep the treatment focused, the emphasis is on roadways (highways) based transportation systems, from the perspective of Indian conditions.

This publication is part of a series of six country reports on technical and vocational education and training (TVET) and higher education in Bangladesh, Nepal, and Sri Lanka. Each report presents current arrangements and initiatives in the respective country's skills development strategies. These are complemented by critical analyses to determine key issues, challenges, and opportunities for innovative strategies toward global competitiveness, increased productivity, and inclusive growth. The emphasis is to make skills training more relevant, efficient, and responsive to emerging domestic and international labor markets. The reports were finalized in 2013 under the Australian AID-supported Phase 1 of Subproject 11 (Innovative Strategies for Accelerated Human Resource Development) of Regional Technical Assistance 6337 (Development Partnership Program for South Asia).

Model Free Adaptive Control: Theory and Applications summarizes theory and applications of model-free adaptive control (MFAC). MFAC is a novel adaptive control method for the unknown discrete-time nonlinear systems with time-varying parameters

and time-varying structure, and the design and analysis of MFAC merely depend on the measured input and output data of the controlled plant, which makes it more applicable for many practical plants. This book covers new concepts, including pseudo partial derivative, pseudo gradient, pseudo Jacobian matrix, and generalized Lipschitz conditions, etc.; dynamic linearization approaches for nonlinear systems, such as compact-form dynamic linearization, partial-form dynamic linearization, and full-form dynamic linearization; a series of control system design methods, including MFAC prototype, model-free adaptive predictive control, model-free adaptive iterative learning control, and the corresponding stability analysis and typical applications in practice. In addition, some other important issues related to MFAC are also discussed. They are the MFAC for complex connected systems, the modularized controller designs between MFAC and other control methods, the robustness of MFAC, and the symmetric similarity for adaptive control system design. The book is written for researchers who are interested in control theory and control engineering, senior undergraduates and graduated students in engineering and applied sciences, as well as professional engineers in process control.

The role of material forensics in articulating new notions of the public truth of political struggle, violent conflict, and climate change are the focus of *Forensis*, the HKW exhibition catalog based on the theories of Eyal Weizman. - The concept of forensis was developed as a research project by Goldsmiths College, Centre for Research Architecture by theorist Eyal Weizman. The project is the subject of a major exhibition at the Haus der Kulturen der Welt (HKW) and catalog cum theoretical reader presenting

the findings and contributions of over 20 influential architects, artists, filmmakers, and academics. *Forensis*, (Latin for pertaining to the forum) argues for the role of material forensics as central to the interpretation of the ways in which states police and govern their subjects. Forensics engages struggles for justice across frontiers of contemporary conflict through the study of how technology mediates the testimony of material objects such as bones, ruins, toxic substances, etc. In the hopes of unlocking forensics potential as a political practice, the project participants present innovative investigations aimed at producing new kinds of evidence for use by international prosecutorial teams, political organizations, NGOs, and the UN.

This book provides practical support and guidance to help IB Diploma Programme students prepare for their mathematics HL exams.

Methods by which robots can learn control laws that enable real-time reactivity using dynamical systems; with applications and exercises. This book presents a wealth of machine learning techniques to make the control of robots more flexible and safe when interacting with humans. It introduces a set of control laws that enable reactivity using dynamical systems, a widely used method for solving motion-planning problems in robotics. These control approaches can replan in milliseconds to adapt to new environmental constraints and offer safe and compliant control of forces in contact. The techniques offer theoretical advantages, including convergence to a goal, non-penetration of obstacles, and passivity. The coverage of learning begins with low-level control parameters and progresses to higher-level competencies composed of

combinations of skills. Learning for Adaptive and Reactive Robot Control is designed for graduate-level courses in robotics, with chapters that proceed from fundamentals to more advanced content. Techniques covered include learning from demonstration, optimization, and reinforcement learning, and using dynamical systems in learning control laws, trajectory planning, and methods for compliant and force control. Features for teaching in each chapter: applications, which range from arm manipulators to whole-body control of humanoid robots; pencil-and-paper and programming exercises; lecture videos, slides, and MATLAB code examples available on the author's website. An eTextbook platform website offering protected material[EPS2] for instructors including solutions.

Addressing the major issues involved in network design and architectures, this text deals primarily with systems and application as related to network system design; it also provides tutorials and surveys and relates new important research results. The intent is to provide a set of tools based on current research that will enable readers to overcome difficulties with the design and construction of communications and computer networks. Each chapter provides background information, describes and analyzes important work done in the field and provides important direction to the reader on future work and further readings. This book may be purchased as a set with its companion volume, Network Performance Modeling and Simulation, edited by Jean Walrand, Kallol Bagchi, and George W. Zobrist.

This highly respected and valued textbook has been the book of choice for Cambridge IGCSE students since its publication. This new edition, complete with CD-ROM, continues to provide compre-

hensive, up-to-date coverage of the core and extended curriculum specified in the IGCSE Physics syllabus. The book is supported by a CD-ROM containing extensive revision and exam practice questions, background information and reference material.

Material is arranged geographically. For each country there is a country profile followed by information on marketing data, communications, transportation, business travel, key contacts, and a summary trade regulations and documentation required. Also included are brief sections on U.S. ports, U.S. foreign trade zones, World Trade Center Association members, U.S. government agencies providing assistance to exporters, foreign trade organizations, foreign communications, and general exports and shipping information and practice.

Popular among university applicants and their advisers alike, these guides present a wide range of information on a specific degree discipline, laid out in tabular format enabling at-a-glance course comparison.

Ever-Increasing Population And Demand Of Built-Up Spaces Have Constrained Our Society To Go For Compact And Multi-Storeyed Building Premises. In Metropolitan Cities, There Was No Choice For Town Planners But To Go For Vertical Expansion Rather Than Horizontal. The Net Result Was Construction Of Thousands Of Multi-Storeyed Complexes Which Needed Proper Fire Security Arrangements. Legislation Exists At Different Levels Incorporating Different Type Of Restrictions To The Designers And Occupiers Of The Building. A Vast Amount Of Guidelines Exists But Not Known To Everybody Engaged In The Field. This Book Is Designed To Cover This Gap And Will Be A Right Choice In This Direction. It Com-

prehensively Deals Not Only With The Fundamentals Of Fire Engineering Appends Different Building Bye-Laws And Relevant Abstracts From Bis And National Building Codes, Nfpa, Lpa, Tac, Etc. But Reviews Structural Safety, And Provides Sufficient Multi Disciplinary Guidelines For Selecting Proper Gadgets For Complete Fire Safety Of Building Complexes. A Complete Treatise On Fire Security Of Its Own Kind For The First Time In India.

Based on the 1995 edition of the American Concrete Institute Building Code, this text explains the theory and practice of reinforced concrete design in a systematic and clear fashion, with an abundance of step-by-step worked examples, illustrations, and photographs. The focus is on preparing students to make the many judgment decisions required in reinforced concrete design, and reflects the author's experience as both a teacher of reinforced concrete design and as a member of various code committees. This edition provides new, revised and expanded coverage of the following topics: core testing and durability; shrinkage and creep; bases the maximum steel ratio and the value of the factor on Appendix B of ACI318-95; composite concrete beams; strut-and-tie models; dapped ends and T-beam flanges. It also expands the discussion of STMs and adds new examples in SI units.

This book provides the reader with the most up-to-date information and development in the Nanofabrication area. It presents a one-stop description at the introduction level on most of the technologies that have been developed which are capable of making structures below 100nm. Principles of each technology are introduced and illustrated with minimum mathematics involved. The book serves as a practical guide and first hand reference for

those working in nanostructure fabrication.

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A real printed MCAT exam for practice test-taking.

In recent years the European Union has enjoyed a significant increase in its profile at both national and international levels. This book explains how the legal rules which underpin the process of integration in the European Union have been shaped in order to give effect to the Union's objectives. It is accordingly suitable as an introductory text designed to expose the reader to the basic constitutional and substantive principles of European Union law. Union law exerts an increasingly profound impact on domestic law and this book will equip a lawyer unfamiliar with the principles of Union law with an awareness of when and why Union law is of relevance in domestic litigation. The evolution of Union law continues apace. Increasingly its law has developed as an instrument of market integration and of market regulation. However recent years have witnessed controversy concerning the appropriate allocation of responsibilities between the Union's own institutions and national authorities. This book provides a fully up-to-date assessment of the changing shape of the European Union and its legal structure.

An extensive working vocabulary is a prerequisite for test-taking success on the GRE Graduate Record Exam. This revised and updated test preparation guide presents 800 college-graduate-level words with definitions that frequently appear on the exam, while

also familiarizing test takers with how the words are generally used in various contexts. Additional features include a pretest that serves as a diagnostic, a lengthy word list with extensive sentence-completion exercises, and a chapter that discusses and analyzes essential word roots. The book concludes with a detailed posttest. Answers are provided for all exercises and for all questions in the posttest.

Indigenous and decolonizing perspectives on education have long persisted alongside colonial models of education, yet too often have been subsumed within the fields of multiculturalism, critical race theory, and progressive education. Timely and compelling, *Indigenous and Decolonizing Studies in Education* features research, theory, and dynamic foundational readings for educators and educational researchers who are looking for possibilities beyond the limits of liberal democratic schooling. Featuring original chapters by authors at the forefront of theorizing, practice, research, and activism, this volume helps define and imagine the exciting interstices between Indigenous and decolonizing studies and education. Each chapter forwards Indigenous principles - such as Land as literacy and water as life - that are grounded in place-specific efforts of creating Indigenous universities and schools, community organizing and social movements, trans and Two Spirit practices, refusals of state policies, and land-based

and water-based pedagogies.

Selected by the Modern Library as one of the 100 best nonfiction books of all time "The Varieties of Religious Experience is certainly the most notable of all books in the field of the psychology of religion and probably destined to be the most influential [one] written on religion in the twentieth century," said Walter Houston Clark in *Psychology Today*. The book was an immediate bestseller upon its publication in June 1902. Reflecting the pluralistic views of psychologist-turned-philosopher William James, it posits that individual religious experiences, rather than the tenets of organized religions, form the backbone of religious life. James's discussion of conversion, repentance, mysticism, and hope of reward and fears of punishment in the hereafter--as well as his observations on the religious experiences of such diverse thinkers as Voltaire, Whitman, Emerson, Luther, Tolstoy, and others--all support his thesis. "James's characteristic humor, his ability to put down the pretentious and to be unpretentious, and his willingness to take some risks in his choices of anecdotal data or provocative theories are all apparent in the book," noted Professor Martin E. Marty. "A reader will come away with more reasons to raise new questions than to feel that old ones have been resolved."

Monthly magazine devoted to topics of general scientific interest.