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Changing economic conditions, concern for historic preservation, emphasis on fully utilizing conveniently located structures, space shortages, and increasing cost of materials and products used in the construction of new buildings, have resulted in a need to evaluate and more fully utilize the existing building inventory. To this end, this revision of the ASCE Standard Guideline for Structural Condition

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Assessment of Existing Buildings (a replacement of ASCE 11-90) provides the design community with guidelines for assessing the structural conditions of existing buildings constructed of combinations of material including concrete, masonry, metals, and wood. It consists of an overview of preliminary and detailed assessment procedures, of materials properties and test methods, and of evaluation procedures for various physical conditions of the structure. This information has been compiled and subjected to a consensus review and approved by the ASCE Standards Committee on Structural Condition to

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provide a much needed resource standards on building condition assessment for selected materials, and for other areas related to the structural performance of buildings. Professional engineers, building owners, and regulatory officials will find this Standard Guideline invaluable.

Papers in this unique volume were developed from the 2006 conference hosted by IBM, Service Science, Management, and Engineering (SSME) — Education for the 21st Century. The book incorporates a variety of perspectives, informed by an international background in SSME

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experience and education, including management, business, social science, computer science and engineering. Readers will derive an understanding of education needs and program offerings in SSME.

Theory and Design for Mechanical Measurements merges time-tested pedagogy with current technology to deliver an immersive, accessible resource for both students and practicing engineers. Emphasizing statistics and uncertainty analysis with topical integration throughout, this book establishes a strong foundation in measurement theory while

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leveraging the e-book format to increase student engagement with interactive problems, electronic data sets, and more. This new Seventh edition has been updated with new practice problems, electronically accessible solutions, and dedicated Instructor Problems that ease course planning and assessment. Extensive coverage of device selection, test procedures, measurement system performance, and result reporting and analysis sets the field for generalized understanding, while practical discussion of data acquisition hardware, infrared imaging, and other current technologies demonstrate real-

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world methods and techniques. Designed to align with a variety of undergraduate course structures, this unique text offers a highly flexible pedagogical framework while remaining rigorous enough for use in graduate studies, independent study, or professional reference. Spatial Intelligence examines public and professional conceptions of the relationships between thinking about spatial attributes and active engagement in spatially related constructions and designs. Even though children's and adolescents' spatial propensities in constructive activities parallel the skills

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needed by professionals in both established and emerging fields, spatial education is often missing from K-12 curricula and is easily impeded by teachers, parents, or other individuals who do not provide contexts in formalized settings, such as schools, to nurture its potential. This book bridges the gap by linking the natural spatial inclinations, interests, and proclivities of individuals from a variety of cultures with professional training and expertise in engineering, architecture, science, and mathematics. Educators will be better able to achieve the skills and awareness necessary to

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provide children and young adults with the vital opportunities inherent in spatial education.

Third Maple Conference, MC 2019, Waterloo, Ontario, Canada, October 15-17, 2019,

Proceedings

Biographical Dictionary of the History of Technology

Beginner's Guide to SOLIDWORKS 2020 - Level II

Progress of the World's Women 2015-2016

The CGIAR at 31

Simplified Signs

Beginner's Guide to SOLIDWORKS 2020 – Level II starts where Beginner's Guide – Level I ends, following the same easy

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to read style and companion videoinstruction, but this time covering advanced topics and techniques. The purpose of this book is to teach advanced techniques including sheet metal, surfacing, how to create components in the context of an assembly and reference other components (Top-down design), propagate design changes with SOLIDWORKS' parametric capabilities, mold design, welded structures and more while explaining the basic concepts of each trade to allow you to understand the how and why of each operation. The author uses simple examples to allow you to better understand each command and environment, as well as to make it easier to explain the purpose of each step, maximizing the learning time by focusing on one task at a time. This book is focused on the processes to complete the modeling of a part, instead of focusing

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on individual software commands or operations, which are generally simple enough to learn. At the end of this book, you will have acquired enough skills to be highly competitive when it comes to designing with SOLIDWORKS, and while there are many less frequently used commands and options available that will not be covered in this book, rest assured that those covered are most of the commands used every day by SOLIDWORKS designers. The author strived hard to include many of the commands required in the Certified SOLIDWORKS Professional Advanced and Expert exams as listed on the SOLIDWORKS website.

Project Lead the Way, Inc. (PLTW) is a pioneer in the development of project- and problem-based curriculum for middle school technology and engineering education . The all-

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new Gateway to Engineering text now offers the perfect tool for mastering Project Lead the Way's objectives, by introducing young students to the process of design, the importance of engineering graphics, and applications of electricity and electronics, mechanics, energy, communications, automation/robotics, manufacturing processes and control systems/computer programming This text will help students build a solid foundation in technological literacy while they study engineering-related careers and educational pathways. Everyday examples show how engineers and their innovations affect the world around them. A strong technical focus is complemented by a clear, straightforward writing style. Coverage of social impacts of new technologies will allow students to explore possibilities for career pathways in

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engineering and engineering technology. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Profiles more than 150 scientists from around the world who made important contributions to the study of earth science, including Don L. Anderson, Marie Luisa Crawford, Hans P. Eugster, Marshall Kay, and Manik Talwani.

"This book, though, is based on teaching two University of Illinois at Urbana-Champaign (UIUC) courses over the past 20 years, a first-year engineering design graphics course and a 400 level CAD technology and design thinking course. Thus, additional goals are to present a cornerstone to capstone treatment of computer-aided design and to provide a solid foundation in engineering design. The cornerstone component

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includes engineering graphics, freehand sketching, CAD modeling, spatial visualization, and an introduction to design using reverse engineering and product dissection. The capstone phase (2nd, 3rd, 4th year, senior design) includes the different kinds of CAD (parametric vs direct, solid vs NURBS surface, freeform, BIM), additive manufacturing, 3D scanning and reality capture, simulation and generative design, as well as engineering design, human-centered design, and design thinking"--

Gateway to Engineering

The Claims of Kinfolk

Why It Matters from Birth through the Lifespan

Classic Edition

Visualization, Modeling, and Graphics for Engineering Design

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Second Edition

A thoroughly contemporary approach to teaching essential engineering graphics skills has made Fundamentals of Graphics Communication the leading textbook in introductory engineering graphics courses. The sixth edition continues to integrate design concepts and the use of CAD into its outstanding coverage of the basic visualization and sketching techniques that enable students to create and communicate graphic ideas effectively. As in past editions, the authors have included many examples of

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how graphics communication pertains to "real-world" engineering design, including current industry practices and breakthroughs. A website provides additional resources such as an image library, animations, and quizzes.

"Simplified Signs presents a system of manual sign communication intended for special populations who have had limited success mastering spoken or full sign languages. It is the culmination of over twenty years of research and development by the authors. The Simplified Sign System has

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been developed and tested for ease of sign comprehension, memorization, and formation by limiting the complexity of the motor skills required to form each sign, and by ensuring that each sign visually resembles the meaning it conveys. Volume 1 outlines the research underpinning and informing the project, and places the Simplified Sign System in a wider context of sign usage, historically and by different populations. Volume 2 presents the lexicon of signs, totalling approximately 1000 signs, each with a clear illustration and a written

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description of how the sign is formed, as well as a memory aid that connects the sign visually to the meaning that it conveys. While the Simplified Sign System originally was developed to meet the needs of persons with intellectual disabilities, cerebral palsy, autism, or aphasia, it may also assist the communication needs of a wider audience - such as healthcare professionals, aid workers, military personnel, travellers or parents, and children who have not yet mastered spoken language. The system also has been shown to enhance learning for

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individuals studying a foreign language. Lucid and comprehensive, this work constitutes a valuable resource that will enhance the communicative interactions of many different people, and will be of great interest to researchers and educators alike."--Publisher's website

FUNDAMENTALS OF MODERN DRAFTING, Second Edition, provides a thorough introduction to contemporary drafting, covering essential technical and engineering drawing concepts and key professional applications. The author uses a highly

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practical, building-block approach to help you quickly develop the knowledge and skills you need to prepare working drawings for production. Coverage encompasses freehand sketching, instrument drawing, CAD, drafting conventions and formats, multiview, development, pictorial drawing procedures, geometric tolerancing practices, descriptive geometry, and more. Every chapter includes vibrant illustrations to complement the text, as well as hands-on exercises that encourage you to apply what you're learning. Now updated to reflect the

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latest trends and technology, the new Second Edition reflects current ASME standards to help you make a smooth transition from study and skill development to professional success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Consultative Group on International Agricultural Research (CGIAR) was established in 1971 to support the Rockefeller and Ford Foundations in funding four international agricultural

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research centres in Colombia, Mexico, Nigeria and the Philippines. As the first global programme to receive grants from the World Banks net income, the CGIAR now consists of 16 autonomous international centres, with a membership of 62 countries, including 24 developing and transition economies. This report evaluates the work of CGIAR and makes several recommendations to address the future challenges it faces in promoting agricultural research.

Theory and Design for Mechanical Measurements

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Epic in American Culture

Early Architects of the Hunter Region

The Englishwoman's Year Book and

Directory for the Year ...

The Secret of Numbers and how They

Changed the World

Private Remedies for Corruption

In The Claims of Kinfolk, Dylan Penningroth uncovers an extensive informal economy of property ownership among slaves and sheds new light on African American family and community life from the heyday of plantation slavery to the "freedom generation" of the 1870s. By focusing on relationships among blacks, as well as on

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the more familiar struggles between the races, Penningroth exposes a dynamic process of community and family definition. He also includes a comparative analysis of slavery and slave property ownership along the Gold Coast in West Africa, revealing significant differences between the African and American contexts. Property ownership was widespread among slaves across the antebellum South, as slaves seized the small opportunities for ownership permitted by their masters. While there was no legal framework to protect or even recognize slaves' property rights, an informal system of acknowledgment recognized by both blacks and whites enabled slaves to mark the boundaries of possession. In turn, property ownership--and the negotiations it

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entailed--influenced and shaped kinship and community ties. Enriching common notions of slave life, Penningroth reveals how property ownership engendered conflict as well as solidarity within black families and communities. Moreover, he demonstrates that property had less to do with individual legal rights than with constantly negotiated, extralegal social ties.

This book constitutes the refereed proceedings of the third Maple Conference, MC 2019, held in Waterloo, Ontario, Canada, in October 2019. The 21 revised full papers and 9 short papers were carefully reviewed and selected out of 37 submissions, one invited paper is also presented in the volume. The papers included in this book cover topics in education, algorithms, and

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applications of the mathematical software Maple.

Despite significant developments in anti-corruption law and policy over the last 20 years, corruption still remains a deep and pressing problem. The profoundly negative consequences of corruption in a global world make the need for effective mechanisms to combat it particularly urgent. This book presents private remedies as a necessary next step in the fight against corruption. It examines how the public role of the state and private actions by individuals intersect and complement each other in the fight against corruption. Taking a comparative and conceptual approach, the book explores the potential of private remedies and explains how private law mechanisms can overcome some of the

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limitations of traditional criminal law approaches to fighting corruption. Drawing on provisions of the United Nations Convention against Corruption, as well as models of private remedies from selected jurisdictions, it describes the current position of the law, but also looks to the future with suggestions for an international framework for private remedies in the fight against corruption. Private Remedies for Corruption will be of interest to researchers of anti-corruption law and policy, as well as government policy makers, international institutions, civil society, and business organizations. This Biographical Dictionary seeks to put the world of technology in the context of those who have made the most important contribution to it. For the first time

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information has been gathered on the people who have made the most significant advances in technology. From ancient times to the present day, the major inventors, discoverers and entrepreneurs from around the world are profiled, and their contribution to society explained and assessed. Structure The Dictionary presents descriptive and analytical biographies of its subjects in alphabetical order for ease of reference. Each entry provides detailed information on the individual's life, work and relevance to their particular field. * in the first part of the entry, the information will include the dates and places of the subject's birth and death, together with their nationality and their field of activity * in the main body of the entry there follows an account of their principal achievements

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and their significance in the history of technology, along with full details of appointments and honours * finally an annotated bibliography will direct the reader to the subject's principal writings and publications and to the most important secondary works which the reader can consult for further information. Special Features: * The first work in existence to examine technologists in detail * Contains over 1,500 entries giving detailed information * Extensive cross-references enable the reader to compare subjects and build up a picture of technological advance^ * Figures drawn from fields such as Aeronautics, Telecommunications, Architecture, Photography and Textiles

Fundamentals of Graphics Communication

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Spatial Intelligence

Service Science, Management and Engineering

A Foundation Course for Graphic Designers Working in Print, Moving Image and Digital Media

African American Property and Community in the Nineteenth-Century South

Graphic Design School

The book aims to provide an archival forum for researchers, academics, practitioners, and industry professionals interested and/or engaged in the reform of the ways of teaching and learning through advancing current learning environments towards

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smart learning environments. It facilitates opportunities for discussions and constructive dialogue among various stakeholders on the limitations of existing learning environments, need for reform, innovative uses of emerging pedagogical approaches and technologies, and sharing and promotion of best practices, leading to the evolution, design and implementation of smart learning environments. The focus of the contributions in this book is on the interplay of pedagogy, technology and

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their fusion towards the advancement of smart learning environments. Various components of this interplay include but are not limited to: ● Pedagogy: learning paradigms, assessment paradigms, social factors, policy; ● Technology: emerging technologies, innovative uses of mature technologies, adoption, usability, standards, and emerging/new technological paradigms (open educational resources, cloud computing, etc.); ● Fusion of pedagogy and technology: transformation of curriculum, transformation of teaching

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behavior, transformation of administration, best practices of infusion, piloting of new ideas. This volume explores the potentially transformative role of effective laws and legal institutions in providing people with more opportunity that is both inclusive and equitable.

Visualization, Modeling, and Graphics for Engineering Design Cengage Learning Illustrated with photos, diagrams and digital imagery, this chronicle searches for the meaning of numbers and explores

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puzzling aspects of the mathematical world, and the people who made it.

An Independent Meta-evaluation of the Consultative Group on International Agricultural Research

Settlement to Reconstruction

Therapeutic Ribonucleic Acids in Brain Tumors

Irrigation Water Pricing

Health Care Technology And Its Assessment In Eight Countries

A Guide to Administering Distance Learning

Graphic Design School is organized into two main

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sections, 'principles' and 'practice'. The first section deals with the fundamentals of design, such as composition, hierarchy, layout, typography, grid structure, colour and so on. The second section puts these basics into practice, and gives information about studio techniques and production issues relevant to a number of different graphic design disciplines. The last part of the second section provides an overview of some of the different career choices open to students entering the graphic design field. This seventh edition of Graphic Design School features all-new assignments and fully updated reading lists. Over a third of the images are entirely new, and include a mix of professional work and outstanding

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student pieces. In addition, Part II: Practice Plus features new software and revisits old print technologies - for example, risograph printing and screen printing - which are becoming increasingly popular forms of production again.

The idea of one's memory "filling up" is a humorous misconception of how memory in general is thought to work; it actually has no capacity limit. However, the idea of a "full brain" makes more sense with reference to working memory, which is the limited amount of information a person can hold temporarily in an especially accessible form for use in the completion of almost any challenging cognitive task. This

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groundbreaking book explains the evidence supporting Cowan's theoretical proposal about working memory capacity, and compares it to competing perspectives. Cognitive psychologists profoundly disagree on how working memory is limited: whether by the number of units that can be retained (and, if so, what kind of units and how many), the types of interfering material, the time that has elapsed, some combination of these mechanisms, or none of them. The book assesses these hypotheses and examines explanations of why capacity limits occur, including vivid biological, cognitive, and evolutionary accounts. The book concludes with a discussion of the practical importance of capacity limits

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in daily life. This 10th anniversary Classic Edition will continue to be accessible to a wide range of readers and serve as an invaluable reference for all memory researchers.

This book explores poetry and pedagogy in practice across the lifespan. Poetry is directly linked to improved literacy, creativity, personal development, emotional intelligence, complex analytical thinking and social interaction: all skills that are crucial in contemporary educational systems. However, a narrow focus on STEM subjects at the expense of the humanities has led educators to deprioritize poetry and to overlook its interdisciplinary, multi-modal potential. The editors and

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contributors argue that poetry is not a luxury, but a way to stimulate linguistic experiences that are formally rich and cognitively challenging. To learn through poetry is not just to access information differently, but also to forge new and different connections that can serve as reflective tools for lifelong learning. This interdisciplinary book will be of value to teachers and students of poetry, as well as scholars interested in literacy across the disciplines.

In the past few years nucleic acids technologies have grown into a powerful analytical and also increasingly therapeutic tool. It has been applied not only to the uncovering of gene functions in many organisms, but

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also to pathogenetic analysis and recently also for the treatment of human diseases. The book discusses in depth the potential of these innovative methods in the broad field of central nervous system and brain tumours particularly. Whereas there is currently no comprehensive overview on potential and challenges of nucleic acids technologies for basic brain tumours and for the clinical management of patients with brain tumours, this book does explicitly cover the many other aspects of the "RNA World" (pathogenic and therapeutic potential of microRNAs, aptamer technology, etc.), too. With this significantly broadened scope as compared to currently existing books it appears to be an urgently

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needed new publication.

Maple in Mathematics Education and Research

Working Memory Capacity

Phase-equilibrium Relations of the Common Rock-forming Oxides Except Water

Solutions Manual to Accompany Visualization, Modeling, and Graphics for Engineering Design

The History of the Woollen and Worsted Industries

An Introduction

This UN Women's flagship report shows that, all too often, women's economic and social rights are held back, because they are forced to fit into a 'man's world'. But, it is

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possible to move beyond the status quo, to picture a world where economies are built with women's rights at their heart. It is being published as the international community comes together to define a transformative post-2015 development agenda, and coincides with the 20th anniversary commemoration of the landmark Fourth World Conference on Women in Beijing, China which set out a comprehensive agenda to advance gender equality. This publication brings together human rights and economic policymaking, and provides the key elements for a far-reaching new policy agenda that can

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transform economies and make women's rights a reality. Through solid in-depth analysis and data, this evidence-based report provides key recommendations on moving towards an economy that truly works for women, for the benefit of all.

This book investigates the concept of what it means to be 'epic' and its form in American life, literature, and art from the country's early days.

A Guide to Administering Online Learning provides an overview of tasks to be accomplished in order to direct dynamic online initiatives. Experienced distance

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learning teachers and administrators share their insights regarding what must be done to administer effective online learning.

A new book for a new generation of engineering professionals, *Visualization, Modeling, and Graphics for Engineering Design* was written from the ground up to take a brand-new approach to graphic communication within the context of engineering design and creativity. With a blend of modern and traditional topics, this text recognizes how computer modeling techniques have changed the engineering design process. From this new perspective, the text is able to focus on the

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evolved design process, including the critical phases of creative thinking, product ideation, and advanced analysis techniques. Focusing on design and design communication rather than drafting techniques and standards, it goes beyond the what to explain the why of engineering graphics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Gap Between Theory and Practice

Guideline for Structural Condition Assessment of Existing Buildings

Mechanical Testing of Engineering Materials

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A to Z of Earth Scientists

Fundamentals of Modern Drafting

Fostering Development through Opportunity, Inclusion, and Equity

Much hope has been vested in pricing as a means of helping to regulate and rationalize water management, notably in the irrigation sector. The pricing of water has often been applied universally, using general and ideological policies, and not considering regional environmental and economic differences. Almost 15 years after the emphasis laid at the Dublin and Rio conferences on treating water as an

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economic good, a comprehensive review of how such policies have helped manage water resources an irrigation use is necessary. The case-studies presented here offer a reassessment of current policies by evaluating their objectives and constraints and often demonstrating their failure by not considering the regional context. They will therefore contribute to avoiding costly and misplaced reforms and help design water policies that are based on a deeper understanding of the factors which eventually dictate their effectiveness. This Text Provides A Balanced And Current

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Treatment Of The Full Spectrum Of Engineering Materials, Covering All The Physical Properties, Applications And Relevant Properties Associated With The Subject. It Explores All The Major Categories Of Materials While Offering Detailed Examinations Of A Wide Range Of New Materials With High-Tech Applications.

Examines the management of health care technology in 8 countries: Australia, Canada, France, Germany, the Netherlands, Sweden, the U.K & the U.S. Six technologies (or sets of technologies) -- including evaluation & management efforts & how the technologies

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diffused -- are presented & compared: treatments for coronary artery disease, imaging technologies (CT & MRI scanning), laparoscopic surgery, treatments for end-stage renal disease, neonatal intensive care, & breast cancer screening. Extensive bibliography for each country. Charts & tables.

Ecology and Wonder celebrates Western Canada's breathtaking landscape. The book makes several remarkable claims. The greatest cultural achievement in the mountain region of western Canada may be what has been preserved, not what has been developed.

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Protecting the spine of the Rocky Mountains will preserve crucial ecological functions. Because the process of ecosystem diminshment and species loss has been slowed, an ecological thermostat has been kept alive. This may well be an important defence against future impacts of climate change in the Canadian West.

Sketching, Modeling, and Visualization

A Manual Sign-communication System for Special Populations. Principles, background, and application. Volume 1

Innovations in Smart Learning

The History of Geoconservation

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Towards an International Framework

Connects the development of the Hunter Valley with the architects living and practising in the region. It outlines the early settlement and growth of the valley in which the architectural profession gradually responded to the challenges and opportunities in some isolation, away from Sydney town.

This book is aimed at those in engineering/scientific fields who have never learned programming before but are eager to master the C language quickly so as to

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immediately apply it to problem solving in numerical analysis. The book skips unnecessary formality but explains all the important aspects of C essential for numerical analysis. Topics covered in numerical analysis include single and simultaneous equations, differential equations, numerical integration, and simulations by random numbers. In the Appendices, quick tutorials for gnuplot, Octave/MATLAB, and FORTRAN for C users are provided.

This book is the first to describe the history of geoconservation. It draws on experience from the UK, Europe and further afield, to explore topics

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including: what is geoconservation; where, when and how did it start; who was responsible; and how has it differed across the world? Geological and geomorphological features, processes, sites and specimens, provide a resource of immense scientific and educational importance. They also form the foundation for the varied and spectacular landscapes that help define national and local identity as well as many of the great tourism destinations. Mankind's activities, including contributing to enhanced climate change, pose many threats to this resource: the importance of safeguarding and managing it for

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future generations is now widely accepted as part of sustainable development. Geoconservation is an established and growing activity across the world, with more participants and a greater profile than ever before. This volume highlights a history of challenges, set-backs, successes and visionary individuals and provides a sound basis for taking geoconservation into the future.

In Mechanical Testing of Engineering Materials students learn how to perform specific mechanical tests of engineering materials, produce comprehensive reports of their findings, and solve a variety of materials problems. The

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book features engaging, instructive experiments on topics such as the modification of material microstructure through heat treatment, hardness measurement and the interpretation of hardness data, and the extraction of elastic and plastic material properties of different materials from uniaxial monotonic and cyclic loading experiments. Students also learn about the mechanical behavior of viscoelastic materials, wear testing, and how to correlate measured fatigue properties to microstructure characteristics. This latest edition of Mechanical Testing of Engineering Materials includes

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illustrative examples, important formulae, practice problems and their solutions, and updated experiments with representative results. In addition, each chapter features a question set which can be used for laboratory assignments. Based on the requirements for undergraduate courses in the discipline, the book is ideal for classes on the mechanical behavior of materials.

Disciplines, Classrooms, Contexts

C Programming and Numerical Analysis

Transforming Economies, Realizing Rights

The Book of Numbers

Lay Sermons, Addresses and Reviews

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Ecology & Wonder in the Canadian Rocky Mountain Parks World Heritage Site