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Learning styles and pedagogy in post-16 learning : a systematic and critical review Mini Cooper (R55, R56, R57) Service Manual: 2007, 2008, 2009, 2010, 2011, 2012, 2013: Cooper, Cooper S, John Cooper Works (Jcw) Including Clubman, Con *The MINI Cooper, Cooper S, Clubman (R55, R56, R57) 2007-2013 Service Manual is a comprehensive source of service information and specifications for MINI Cooper models from 2007 to 2013 (Mk II). The aim throughout this manual has been simplicity, clarity and completeness, with practical explanations, step-by-step procedures and accurate specifications. Whether you're a professional or a do-it-yourself MINI owner, this manual will help you understand, care for and repair your car. Engines covered: Cooper: 1.6 liter normally aspirated engine (engine codes N12, N16) Cooper S: 1.6 liter supercharged engine (engine codes N14, N18) Transmissions covered: Manual: 6-speed Getrag (GS6-55BG for Cooper, GS6-53BG for Cooper S) Automatic: 6-speed with Agitronic, Aisin (GA6F21WA)* **Manual of Engineering Drawing to British and International Standards Elsevier** *The Manual of Engineering Drawing has long been recognised as the student and practising engineer's guide to producing engineering drawings that comply with ISO and British Standards. The information in this book is equally applicable to any CAD application or manual drawing. The second edition is fully in line with the requirements of the new British Standard BS8888: 2002, and will help engineers, lecturers and students with the transition to the new standards. BS8888 is fully based on the relevant ISO standards, so this book is also ideal for an international readership. The comprehensive scope of this book encompasses topics including orthographic, isometric and oblique projections, electric and hydraulic diagrams, welding and adhesive symbols, and guidance on tolerancing. Written by a member of the ISO committee and a former college lecturer, the Manual of Engineering Drawing combines up-to-the-minute technical accuracy with clear, readable explanations and numerous diagrams. This approach makes this an ideal student text for vocational courses in engineering drawing and undergraduates studying engineering design / product design. Colin Simmons is a member of the BSI and ISO Draughting Committees and an Engineering Standards Consultant. He was formerly Standards Engineer at Lucas CAV. * Fully in line with the latest ISO Standards * A textbook and reference guide for students and engineers involved in design engineering and product design * Written by a former lecturer and a current member of the relevant standards committees* **Occidentosis A Plague from the West Handbook of Probiotics and Prebiotics John Wiley & Sons** *Since the publication of the first edition in 1999, the science of probiotics and prebiotics has matured greatly and garnered more interest. The first handbook on the market, Handbook of Probiotics and Prebiotics: Second Edition updates the data in its predecessor, and it also includes material topics not previously discussed in the first edition, including methods protocols, cell line and animal models, and coverage of prebiotics. The editors supplement their expertise by bringing in international experts to contribute chapters. This second edition brings together the information needed for the successful development of a pro- or prebiotic product from laboratory to market.* **Anti-Computing Dissent and the Machine** *The computerization of culture appears relentless and unstoppable. In response Anti-Computing deals in dissent. Engaging with critical theory and media archaeology, working with rich and varied materials, it explores key moments when computer technologies, logics, techniques, imaginaries, utopias have been questioned, disputed, or refused.* **Australia's Biodiversity and Climate Change CSIRO PUBLISHING** *This book provides a strategic assessment of the vulnerability of Australia's biodiversity (primarily terrestrial) to climate change and suggests ways that policy and management can deal with the threats to biodiversity associated with climate change. It begins with a long-time perspective on the evolution of Australia's biota—why Australia is so species-rich, why its biodiversity is unique, and why the conservation of this biodiversity is so important. It goes on to describe the two centuries of acute change since European settlement—the ultimate drivers of current changes in Australia's biodiversity and the observed changes in diversity at the genetic, species and ecosystem levels. The discussion of climate change itself is organized around the global and the Australian scales, describing the climate changes that have already been observed over the last one to two centuries and outlining the range of projections for Australia for the rest of this century. The ways in which climate change is already affecting Australia's biota and will potentially affect it in future are described in considerable detail. The book then focuses strongly on how to reduce the vulnerability of Australia's biodiversity to climate change, beginning with a description of current management principles, and an analysis of the current set of conservation strategies and tools and the current policy and institutional landscape for biodiversity conservation. Building on a set of fundamental ecological principles, the focus then shifts to ways in which adaptive capacity can be enhanced—modified and new management approaches, innovative governance systems and a much larger resource base.*

Finally, a set of five key messages and policy directions pulls together the major conclusions arising from the assessment. **Advances in Enzyme Biotechnology Springer Science & Business Media** Enzyme Technology is one the most promising disciplines in modern biotechnology. In this book, the applications of a wide variety of enzymes are highlighted. Current studies in enzyme technology are focused towards the discovery of novel enzymes (termed "bio-discovery" or "bio-prospecting") and the identification and elucidation of novel pathways of these novel enzymes with emphasis on their industrial relevance. With the development of molecular techniques and other bioinformatics tools, the time to integrate this subject with other fields in the life sciences has arrived. A rapid expansion of the knowledge base in the field of enzyme biotechnology has occurred over the past few years. Much of this expansion has been driven by the bio-discovery of many new enzymes from a wide range of environments, some extreme in nature, followed by subsequent protein (enzyme) engineering. These enzymes have found a wide range of applications, ranging from bioremediation, bio-monitoring, biosensor development, bioconversion to biofuels and other biotechnologically important value-added products. Hydrolases constitute a major component of the global annual revenue generated by industrial enzymes and the emphasis has therefore been placed on these enzymes and their applications. With the immense interest of researchers active in this area, this book will serve to provide information on current aspects in this field of study. In the current edition, the contributions of many diversified topics towards establishing new directions of research in the area of enzyme biotechnology are described. This book serves to provide a unique source of information to undergraduates, post graduates and doctoral courses in microbiology and biotechnology along with allied life sciences. The present edition of the book covers all important areas of enzyme biotechnology i.e. the wide variety of enzymes in the field of enzyme biotechnology and their industrial applications, new methods and state-of-the-art information on modern methods of enzyme discovery. This book will act as good resource on most of the current facets of enzyme technology for all students engaged in bioengineering and biotechnology. **Governing Extractive Industries Politics, Histories, Ideas Oxford University Press** This book synthesizes findings regarding the political drivers of institutional change in extractive industry governance. It analyses resource governance from the late nineteenth century to the present in Bolivia, Ghana, Peru, and Zambia, focusing on the ways in which resource governance and national political settlements interact. **Light In The Darkness African Americans and the YMCA, 1852-1946 University Press of Kentucky** From the time of its emergence in the United States in 1852, the Young Men's Christian Association excluded blacks from membership in white branches but encouraged them to form their own associations and to join the Christian brotherhood on "separate but equal" terms. Nina Mjagkij's book, the first comprehensive study of African Americans in the YMCA, is a compelling account of hope and success in the face of adversity. African American men, faced with emasculation through lynchings, disenfranchisement, race riots, and Jim Crow laws, hoped that separate YMCAs would provide the opportunity to exercise their manhood and joined in large numbers, particularly members of the educated elite. Although separate black YMCAs were the product of discrimination and segregation, to African Americans they symbolized the power of racial solidarity, representing a "light in the darkness" of racism. By the early twentieth century there existed a network of black-controlled associations that increasingly challenged the YMCA to end segregation. But not until World War II did the organization, in response to growing protest, pass a resolution urging white associations to end Jim Crowism. Using previously untapped sources, Nina Mjagkij traces the YMCA's changing racial policies and practices and examines the evolution of African American associations and their leadership from slavery to desegregation. Here is a vivid and moving portrayal of African Americans struggling to build black-controlled institutions in their search for cultural self-determination. Light in the Darkness uncovers an important aspect of the struggle for racial advancement and makes a significant contribution to our understanding of the African American experience. **Implementing IBM FlashSystem 900 IBM Redbooks** Today's global organizations depend on being able to unlock business insights from massive volumes of data. Now, with IBM® FlashSystem 900, powered by IBM FlashCore™ technology, they can make faster decisions based on real-time insights and unleash the power of the most demanding applications, including online transaction processing (OLTP) and analytics databases, virtual desktop infrastructures (VDIs), technical computing applications, and cloud environments. This IBM Redbooks® publication introduces clients to the IBM FlashSystem® 900. It provides in-depth knowledge of the product architecture, software and hardware, implementation, and hints and tips. Also illustrated are use cases that show real-world solutions for tiering, flash-only, and preferred-read, and also examples of the benefits gained by integrating the FlashSystem storage into business environments. This book is intended for pre-sales and post-sales technical support professionals and storage administrators, and for anyone who wants to understand how to implement this new and exciting technology. This book describes the following offerings of the IBM Spectrum™ Storage family: IBM Spectrum Storage™ IBM Spectrum Control™ IBM Spectrum Virtualize™ IBM Spectrum Scale™ IBM Spectrum Accelerate™ **The Big Archive Art From Bureaucracy MIT Press** The archive as a crucible of twentieth-century modernism and key for understanding contemporary art. The typewriter, the card index, and the filing cabinet: these are technologies and modalities of the archive. To the bureaucrat, archives contain little more than garbage, paperwork no longer needed; to the historian, on the other hand, the archive's content stands as a quasi-objective correlative of the "living" past. Twentieth-century art made use of the archive in a variety of ways—from what Spieker calls Marcel Duchamp's "anemic archive" of readymades and El Lissitzky's Demonstration Rooms to the compilations of photographs made by such postwar artists as Susan Hiller and Gerhard Richter. In *The Big Archive*, Sven Spieker investigates the archive—as both bureaucratic institution and index of evolving attitudes toward contingent time in science and art—and finds it to be a crucible of twentieth-century modernism. Dadaists, constructivists, and Surrealists favored discontinuous, nonlinear archives that resisted hermeneutic reading and ordered presentation. Spieker argues that the use of archives by such contemporary artists as Hiller, Richter, Hans-Peter Feldmann, Walid Raad, and Boris Mikhailov responds to and continues this attack on the nineteenth-century archive and its objectification of the historical process. Spieker considers archivally driven art in relation to changing media technologies—the typewriter, the telephone, the telegraph, film. And he connects the archive to a particularly modern visuality, showing that the avant-garde used the archive as something of a laboratory for experimental inquiries into the nature of vision and its relation to time. *The Big Archive* offers us the first critical monograph on an overarching motif in twentieth-century art. **Knowledge Graphs Morgan & Claypool Publishers** This book provides a comprehensive and accessible introduction to knowledge graphs, which have recently garnered notable attention from both industry and academia. Knowledge graphs are founded on the principle of applying a graph-based abstraction to data, and are now

broadly deployed in scenarios that require integrating and extracting value from multiple, diverse sources of data at large scale. The book defines knowledge graphs and provides a high-level overview of how they are used. It presents and contrasts popular graph models that are commonly used to represent data as graphs, and the languages by which they can be queried before describing how the resulting data graph can be enhanced with notions of schema, identity, and context. The book discusses how ontologies and rules can be used to encode knowledge as well as how inductive techniques—based on statistics, graph analytics, machine learning, etc.—can be used to encode and extract knowledge. It covers techniques for the creation, enrichment, assessment, and refinement of knowledge graphs and surveys recent open and enterprise knowledge graphs and the industries or applications within which they have been most widely adopted. The book closes by discussing the current limitations and future directions along which knowledge graphs are likely to evolve. This book is aimed at students, researchers, and practitioners who wish to learn more about knowledge graphs and how they facilitate extracting value from diverse data at large scale. To make the book accessible for newcomers, running examples and graphical notation are used throughout. Formal definitions and extensive references are also provided for those who opt to delve more deeply into specific topics.

A History of the French in London Liberty, Equality, Opportunity This book examines, for the first time, the history of the social, cultural, political and economic presence of the French in London, and explores the multiple ways in which this presence has contributed to the life of the city. The capital has often provided a place of refuge, from the Huguenots in the 17th century, through the period of the French Revolution, to various exile communities during the 19th century, and on to the Free French in the Second World War. It also considers the generation of French citizens who settled in post-war London, and goes on to provide insights into the contemporary French presence by assessing the motives and lives of French people seeking new opportunities in the late 20th and early 21st centuries. It analyses the impact that the French have had historically, and continue to have, on London life in the arts, gastronomy, business, industry and education, manifest in diverse places and institutions from the religious to the political via the educational, to the commercial and creative industries.

Neural Information Processing and VLSI Springer Neural Information Processing and VLSI provides a unified treatment of this important subject for use in classrooms, industry, and research laboratories, in order to develop advanced artificial and biologically-inspired neural networks using compact analog and digital VLSI parallel processing techniques. Neural Information Processing and VLSI systematically presents various neural network paradigms, computing architectures, and the associated electronic/optical implementations using efficient VLSI design methodologies. Conventional digital machines cannot perform computationally-intensive tasks with satisfactory performance in such areas as intelligent perception, including visual and auditory signal processing, recognition, understanding, and logical reasoning (where the human being and even a small living animal can do a superb job). Recent research advances in artificial and biological neural networks have established an important foundation for high-performance information processing with more efficient use of computing resources. The secret lies in the design optimization at various levels of computing and communication of intelligent machines. Each neural network system consists of massively paralleled and distributed signal processors with every processor performing very simple operations, thus consuming little power. Large computational capabilities of these systems in the range of some hundred giga to several tera operations per second are derived from collectively parallel processing and efficient data routing, through well-structured interconnection networks. Deep-submicron very large-scale integration (VLSI) technologies can integrate tens of millions of transistors in a single silicon chip for complex signal processing and information manipulation. The book is suitable for those interested in efficient neurocomputing as well as those curious about neural network system applications. It has been especially prepared for use as a text for advanced undergraduate and first year graduate students, and is an excellent reference book for researchers and scientists working in the fields covered.

The Roman Small Finds from Excavations in Colchester 1971-9 Digital Transformation and Global Society 5th International Conference, DTGS 2020, St. Petersburg, Russia, June 17-19, 2020, Revised Selected Papers Springer Nature This volume constitutes refereed proceedings of the 5th International Conference on Digital Transformation and Global Society, DTGS 2020, held in St. Petersburg, Russia, in June 2020. Due to the COVID-19 pandemic the conference was held online. The 30 revised full papers and 6 short papers presented in the volume were carefully reviewed and selected from 108 submissions. The papers are organized in topical sections on e-society: virtual communities and online activism; e-society: computational social science; e-polity: governance and politics on the Internet; e-city: smart cities and urban governance; e-economy: digital economy and consumer behavior; e-humanities: digital culture and education; e-health: international workshop "E-Health: 4P-medicine & Digital Transformation".

Living Doubt Essays concerning the epistemology of Charles Sanders Peirce Springer Science & Business Media Charles Sanders Peirce (1839--1914) has often been referred to as one of the most important North American philosophers, but the real extent of his philosophical importance is only now beginning to emerge. Peirce's 'pragmatism' (his own term) may provide the key to an epistemological theory which avoids both the Scylla of foundationalism and the Charybdis of relativism. Peirce's 'Logic', linked to a conception of knowledge and of science, is increasingly coming to be recognised as the only possible one. In *Living Doubt*, 26 papers are presented by some of the world's leading philosophers, demonstrating the rich and cosmopolitan variety of approach to Peirce's epistemology. The contributions are grouped under three general headings: Knowledge, truth and the pragmatic principle; Peirce and the epistemological tradition; and Knowledge, language and semeiotic.

Spatial Analysis and Social Spaces Interdisciplinary Approaches to the Interpretation of Prehistoric and Historic Built Environments Walter de Gruyter In recent years a range of formal methods of spatial analysis have been developed for the study of human engagement, experience and socialisation within the built environment. This volume brings together contributions from a number of specialists in archaeology, social theory, architecture, and urban planning, who explore the theoretical and methodological frameworks associated with the application of established and novel spatial analysis methods in prehistoric and historic built environments. The authors discuss the relationship between space and social life from different perspectives and provide many illuminating examples of computer-based spatial analysis methods in archaeology.

Hellenistic Science at Court Walter de Gruyter GmbH & Co KG The development of science in the modern world is often held to depend on such institutions as universities, peer-reviewed journals, and democracy. How, then, did new science emerge in the pre-modern culture of the Hellenistic Egyptian monarchy? Berrey argues that the court society formed around the Ptolemaic pharaohs Ptolemy III and IV (reigned successively 246-205/4 BCE) provided an audience for cross-disciplinary, learned knowledge, as physicians,

mathematicians, and mechanics clothed themselves in the virtues of courtiers attendant on the kings. The multicultural Greco-Egyptian court society prized entertainment that drew on earlier literature, mixed genres and cultures, and highlighted motion and sound. New cross-disciplinary science in the Hellenistic period gained its social currency and subsequent scientific success through its entertainment value as court science. Ancient court science sheds light on the long history of scientific interdisciplinarity. **Factories of the Future The Italian Flagship Initiative Springer** This book is open access under a CC BY 4.0 license. This book presents results relevant in the manufacturing research field, that are mainly aimed at closing the gap between the academic investigation and the industrial application, in collaboration with manufacturing companies. Several hardware and software prototypes represent the key outcome of the scientific contributions that can be grouped into five main areas, representing different perspectives of the factory domain: 1) Evolutionary and reconfigurable factories to cope with dynamic production contexts characterized by evolving demand and technologies, products and processes. 2) Factories for sustainable production, asking for energy efficiency, low environmental impact products and processes, new de-production logics, sustainable logistics. 3) Factories for the People who need new kinds of interactions between production processes, machines, and human beings to offer a more comfortable and stimulating working environment. 4) Factories for customized products that will be more and more tailored to the final user's needs and sold at cost-effective prices. 5) High performance factories to yield the due production while minimizing the inefficiencies caused by failures, management problems, maintenance. This book is primarily targeted to academic researchers and industrial practitioners in the manufacturing domain. **Democratic Experiments Problematizing Nanotechnology and Democracy in Europe and the United States MIT Press** An examination of nanotechnology as a lens through which to study contemporary democracy in both theory and practice. In *Democratic Experiments*, Brice Laurent discusses the challenges that emerging technologies create for democracy today. He focuses on nanotechnology and its attendant problems, proposing nanotechnology as a lens through which to understand contemporary democracy in both theory and practice. Arguing that democracy is at stake where nanotechnology is defined as a problem, Laurent examines the sites where nanotechnology is discussed and debated by scientists, policymakers, and citizens. It is at these sites where the joint production of nanotechnology and the democratic order can be observed. Focusing on the United States, France, and Europe, and various international organizations, Laurent analyzes representations of nanotechnology in science museums, collective discussions in participatory settings, the making of categories such as "nanomaterials" or responsible innovation" in standardization and regulatory arenas, and initiatives undertaken by social movements. He contrasts American debates, in which the concern for public objectivity is central, with the French "state experiment," the European goal of harmonization, and the international concern with a global market. In France, public debate proceeded in response to public protest and encountered a radical critique of technological development; the United States experimented with an innovative approach to technology assessment. The European regulatory approach results in lengthy debates over political integration; the United States relies on the adversarial functioning of federal agencies. Because nanotechnology is a domain where concerns over anticipation and participation are pervasive, Laurent argues, nanotechnology—and science and technology studies more generally—provides a relevant focus for a renewed analysis of democracy. **The People's Liberation Army and Contingency Planning in China Independently Published** All militaries have a responsibility to plan for contingencies, and China's military, the People's Liberation Army (PLA), is no exception. PLA contingency planning takes place primarily within the General Staff Department's (GSD's) First Department, also known as the GSD Operations Department. China's seven military regions participate in drafting and reviewing the plans relevant to their areas of responsibility, albeit under heavy supervision from the GSD. U.S. joint doctrine defines a contingency as "a situation that likely would involve military forces in response to natural and manmade disasters, terrorists, subversives, military operations by foreign powers, or other situations." U.S. doctrine distinguishes between deliberate planning (advance preparation of campaign and contingency plans in non-crisis situations) and crisis action planning (rapid planning in response to a developing incident or situation). Deliberate planning is typically used to develop campaign and contingency plans for a broad range of activities based on requirements identified in strategic guidance for military commanders. Crisis action planning is conducted with less advance warning (hours, days, or up to 12 months) and focuses on developing alternative courses of action or refining existing campaign or contingency plans to adapt to current circumstances. Why publish a book you can download for free? We print this book so you don't have to. Some documents are only available in electronic format. The print versions may be 6 inch by 9 inch (or smaller) so they are difficult to read. We print books a full 8 1/2 inches by 11 inches with large text and wide margins so you can jot down notes. Some documents found on the web are missing some pages or the image quality is so poor, they are difficult to read. If you find a good copy, you could print it using a network printer you share with 100 other people (typically its either out of paper or toner). If it's just a 10-page document, no problem, but if it's 250-pages, you will need to punch 3 holes in all those pages and put it in a 3-ring binder. Takes at least an hour. It's much more cost-effective to just order the latest version from Amazon.com This book includes original commentary which is copyright material. Note that government documents are in the public domain. We print these large documents as a service so you don't have to. The books are compact, tightly-bound, full-size (8 1/2 by 11 inches), with large text and glossy covers. We publish short-run books (limited numbers) so they are not the least expensive available. However, we strive to issue a high-quality product with large text that is clear and crisp. Of course, color printing is expensive, so we pass that cost along to the customer. 4th Watch Publishing is a Service Disabled Veteran Owned Small Business (SDVOSB) located in a HUBZONE. Feel free to contact me if there is a government publication you want to see printed. Our web site is: usgovpub.com **Quantum Technology and Optimization Problems First International Workshop, QTOP 2019, Munich, Germany, March 18, 2019, Proceedings Springer** This book constitutes the refereed proceedings of the First International Workshop on Quantum Technology and Optimization Problems, QTOP 2019, held in Munich, Germany, in March 2019. The 18 full papers presented together with 1 keynote paper in this volume were carefully reviewed and selected from 21 submissions. The papers are grouped in the following topical sections: analysis of optimization problems; quantum gate algorithms; applications of quantum annealing; and foundations and quantum technologies. **HPC Clusters Using InfiniBand on IBM Power Systems Servers System z End-to-End Extended Distance Guide IBM Redbooks** This IBM® Redbooks® publication will help you design and manage an end-to-end, extended distance connectivity architecture for IBM System z®. This solution addresses your requirements now, and positions you to make effective use of new

technologies in the future. Many enterprises implement extended distance connectivity in a silo manner. However, effective extended distance solutions require the involvement of different teams within an organization. Typically there is a network group, a storage group, a systems group, and possibly other teams. The intent of this publication is to help you design and manage a solution that will provide for all of your System z extended distance needs in the most effective and flexible way possible. This book introduces an approach to help plan, optimize, and maintain all of the moving parts of the solution together.

Apex Legends: Pathfinder's Quest (Lore Book) Dark Horse Comics Explore the world of the hit game through the eyes of the lovable robot, Pathfinder, as he chronicles his journey throughout the various environs of the Outlands to interview his fellow Legends -- all in the hope of finally locating his mysterious creator. The rich history of Apex Legends is explained by the characters that helped to shape it, as are their unique bonds of competition and camaraderie.

The Palgrave Handbook of Paralympic Studies Springer This handbook provides a critical assessment of contemporary issues that define the contours of the Paralympic Movement generally and the Paralympic Games more specifically. It addresses conceptualisations of disability sport, explores the structure of the Paralympic Movement and considers key political strategic and governance issues which have shaped its development. The Palgrave Handbook of Paralympic Studies is written by a range of international authors, a number of whom are senior strategists as well as academics, and explores legacy themes through case studies of recent Paralympic games. Written in the wake of the 2016 Rio Paralympic Games, it provides an assessment of contemporary challenges faced by the International Paralympic Committee and other key stakeholders in the Paralympic Movement. Its critical assessment of approaches to branding, classification, social inclusion and technological advances makes this handbook a valuable resource for undergraduate study across a range of sport and disability related programmes, as well as a point of reference for researchers and policy makers.

Low Vision Manual Elsevier Health Sciences .this book represents a real milestone for low vision care because it is one of the first low vision books in the world, and the first from the UK, that doesn't just give lip service to multi-disciplinary collaboration- it has a multi-disciplinary authorship. Barbara Ryan, Research Associate, School of Optometry and Vision Sciences, Cardiff University, Cardiff, UK Low Vision Manual is a comprehensive guide and up-to-date reference source, written by clinical and research experts in the fields of disease detection and management; primary and secondary optometric care; low vision optics and prescribing; counselling and rehabilitation. All these areas are explored in this book in four key sections: Section One: Definition of low vision and its epidemiology Section Two: The measurement of visual function of the visually impaired Section Three: The optics and practical tips on prescribing low vision aids Section Four: Rehabilitation strategies and techniques This is an important reference tool for all professionals involved with the visually impaired. The book covers everything a practitioner will need on a day-to-day basis. Clear layout with practical tips, worked examples and practical pearls will enable the front-line eye-care professional to provide patients with sound, research-based clinical care and rehabilitation. An essential reference for: . Ophthalmology . Optometry . Orthoptics . Ophthalmic nursing . Visual rehabilitation . Occupational therapy . Social work . Peer work . Psychology . Dispensing opticians

Biom mineralization Mechanism of the Pearl Oyster, Pinctada fucata Springer This book presents an overview of our current understanding of the biomineralization mechanisms for shell formation in the pearl oyster *Pinctada fucata*, based on molecular biology, biochemistry, cell biology, structural biology and environmental biology. *Pinctada fucata* is the major pearl-producing shellfish in the South China Sea and is also an established model system for the research on the nacre biomineralization mechanism. Extensive studies on nacre biomineralization have provided valuable information for novel bionic material design. Discussing the isolation and gene cloning of the matrix proteins involved in the shell formation, as well as the cell signaling pathways, shell microstructures, and the environmental impacts on shell biomineralization, it is a valuable reference resource for researchers working in the field of nacre biomineralization and biomaterials.

Learning Spaces Wireless Network Simulation A Guide using Ad Hoc Networks and the ns-3 Simulator Apress Learn to run your own simulation by working with model analysis, mathematical background, simulation output data, and most importantly, a network simulator for wireless technology. This book introduces the best practices of simulator use, the techniques for analyzing simulations with artificial agents and the integration with other technologies such as Power Line Communications (PLC). Network simulation is a key technique used to test the future behavior of a network. It's a vital development component for the development of 5G, IoT, wireless sensor networks, and many more. This book explains the scope and evolution of the technology that has led to the development of dynamic systems such as Internet of Things and fog computing. You'll focus on the ad hoc networks with stochastic behavior and dynamic nature, and the ns-3 simulator. These are useful open source tools for academics, researchers, students and engineers to deploy telecommunications experiments, proofs and new scenarios with a high degree of similarity with reality. You'll also benefit from a detailed explanation of the examples and the theoretical components needed to deploy wireless simulations or wired, if necessary. What You'll Learn Review best practices of simulator uses Understand techniques for analyzing simulations with artificial agents Apply simulation techniques and experiment design Program on ns-3 simulator Analyze simulation results Create new modules or protocols for wired and wireless networks Who This Book Is For Undergraduate and postgraduate students, researchers and professors interested in network simulations. This book also includes theoretical components about simulation, which are useful for those interested in discrete event simulation DES, general theory of simulation, wireless simulation and ns-3 simulator.

Development and Globalization Facts and Figures United Nations Publications The new phase of challenging globalization is characterized by economic multipolarity with significant weight of the South. Due to dynamism and openness, today the largest and the rapidly-growing developing countries play a fundamental role in stabilizing the world economy. This second edition of the UNCTAD publication focuses on increasing of analytical emphasis and explains new and emerging economic trends. The publication provides brief outline of data and information, and describes UNCTAD's independent research in the areas of finance, technology, investment and sustainable development.

American Women and Flight Since 1940 University Press of Kentucky Kentucky is most commonly associated with horses, tobacco fields, bourbon, and coal mines. There is much more to the state, though, than stories of feuding families and Colonel Sanders' famous fried chicken. Kentucky has a rich and often compelling history, and James C. Klotter and Freda C. Klotter introduce readers to an exciting story that spans 12,000 years, looking at the lives of Kentuckians from Native Americans to astronauts. The Klotters examine all aspects of the state's history—its geography, government, social life, cultural achievements, education, and economy. A Concise History of Kentucky recounts the events of the deadly frontier wars of the state's early history, the divisive Civil War, and

the shocking assassination of a governor in 1900. The book tells of Kentucky's leaders from Daniel Boone and Henry Clay to Abraham Lincoln, Mary Breckinridge, and Muhammad Ali. The authors also highlight the lives of Kentuckians, both famous and ordinary, to give a voice to history. The Klotters explore Kentuckians' accomplishments in government, medicine, politics, and the arts. They describe the writing and music that flowered across the state, and they profile the individuals who worked to secure equal rights for women and African Americans. The book explains what it was like to work in the coal mines and explains the daily routine on a nineteenth-century farm. The authors bring Kentucky's story to the twenty-first century and talk about the state's modern economy, where auto manufacturing jobs are replacing traditional agricultural work. A collaboration of the state historian and an experienced educator, *A Concise History of Kentucky* is the best single resource for Kentuckians new and old who want to learn more about the past, present, and future of the Bluegrass State. **Digital Humanities MIT Press** A visionary report on the revitalization of the liberal arts tradition in the electronically inflected, design-driven, multimedia language of the twenty-first century. *Digital Humanities* is a compact, game-changing report on the state of contemporary knowledge production. Answering the question "What is digital humanities?," it provides an in-depth examination of an emerging field. This collaboratively authored and visually compelling volume explores methodologies and techniques unfamiliar to traditional modes of humanistic inquiry—including geospatial analysis, data mining, corpus linguistics, visualization, and simulation—to show their relevance for contemporary culture. Written by five leading practitioner-theorists whose varied backgrounds embody the intellectual and creative diversity of the field, *Digital Humanities* is a vision statement for the future, an invitation to engage, and a critical tool for understanding the shape of new scholarship. **Critical Mineral Resources of the United States Economic and Environmental Geology and Prospects for Future Supply Geological Survey** As the importance and dependence of specific mineral commodities increase, so does concern about their supply. The United States is currently 100 percent reliant on foreign sources for 20 mineral commodities and imports the majority of its supply of more than 50 mineral commodities. Mineral commodities that have important uses and face potential supply disruption are critical to American economic and national security. However, a mineral commodity's importance and the nature of its supply chain can change with time; a mineral commodity that may not have been considered critical 25 years ago may be critical today, and one considered critical today may not be so in the future. The U.S. Geological Survey has produced this volume to describe a select group of mineral commodities currently critical to our economy and security. For each mineral commodity covered, the authors provide a comprehensive look at (1) the commodity's use; (2) the geology and global distribution of the mineral deposit types that account for the present and possible future supply of the commodity; (3) the current status of production, reserves, and resources in the United States and globally; and (4) environmental considerations related to the commodity's production from different types of mineral deposits. The volume describes U.S. critical mineral resources in a global context, for no country can be self-sufficient for all its mineral commodity needs, and the United States will always rely on global mineral commodity supply chains. This volume provides the scientific understanding of critical mineral resources required for informed decisionmaking by those responsible for ensuring that the United States has a secure and sustainable supply of mineral commodities. **IBM ProtecTIER Implementation and Best Practices Guide IBM Redbooks** This IBM® Redbooks® publication provides best practice guidance for planning, installing, configuring, and employing the IBM TS7600 ProtecTIER® family of products. It provides the latest best practices for the practical application of ProtecTIER Software Version 3.4. This latest release introduces the new ProtecTIER Enterprise Edition TS7650G DD6 model high performance server. This book also includes information about the revolutionary and patented IBM HyperFactor® deduplication engine, along with other data storage efficiency techniques, such as compression and defragmentation. The IBM System Storage® TS7650G ProtecTIER Deduplication Gateway and the IBM System Storage TS7620 ProtecTIER Deduplication Appliance Express are disk-based data storage systems: The Virtual Tape Library (VTL) interface is the foundation of ProtecTIER and emulates traditional automated tape libraries. For your existing ProtecTIER solution, this guide provides best practices and suggestions to boost the performance and the effectiveness of data deduplication with regards to your application platforms for your VTL and FSI (systems prior to version 3.4). When you build a ProtecTIER data deduplication environment, this guide can help IT architects and solution designers plan for the best option and scenario for data deduplication for their environments. This book can help you optimize your deduplication ratio, while reducing the hardware, power and cooling, and management costs. This Redbooks publication provides expertise that was gained from an IBM ProtecTIER System Client Technical Specialist (CTS), Development, and Quality Assurance teams. This planning should be done by the Sales Representative or IBM Business Partner, with the help of an IBM System CTS or IBM Solution Architect. **Renewable Energy Resources, Challenges and Applications BoD - Books on Demand** The demand for secure, affordable and clean energy is a priority call to humanity. Challenges associated with conventional energy resources, such as depletion of fossil fuels, high costs and associated greenhouse gas emissions, have stimulated interests in renewable energy resources. For instance, there have been clear gaps and rushed thoughts about replacing fossil-fuel driven engines with electric vehicles without long-term plans for energy security and recycling approaches. This book aims to provide a clear vision to scientists, industrialists and policy makers on renewable energy resources, predicted challenges and emerging applications. It can be used to help produce new technologies for sustainable, connected and harvested energy. A clear response to economic growth and clean environment demands is also illustrated. **Advances in Neural Computation, Machine Learning, and Cognitive Research Selected Papers from the XIX International Conference on Neuroinformatics, October 2-6, 2017, Moscow, Russia Springer** This book describes new theories and applications of artificial neural networks, with a special focus on neural computation, cognitive science and machine learning. It discusses cutting-edge research at the intersection between different fields, from topics such as cognition and behavior, motivation and emotions, to neurocomputing, deep learning, classification and clustering. Further topics include signal processing methods, robotics and neurobionics, and computer vision alike. The book includes selected papers from the XIX International Conference on Neuroinformatics, held on October 2-6, 2017, in Moscow, Russia. **Microbial Siderophores Springer Science & Business Media** In response to low iron availability in the environment most microorganisms synthesize iron chelators, called siderophores. Bacteria and fungi produce a broad range of structurally diverse siderophores, all of which show a very high affinity for ferric ions. This book presents an up-to-date overview of the chemistry, biology and biotechnology of these iron chelators. Coverage ranges from an introductory chapter to siderotyping to applications in human and plant health.