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From the late 1960s until the end of the Cold War, the United States Air Force acquired and flew Russian-made MiG jets, culminating in a secret squadron dedicated to exposing American fighter pilots to enemy technology and tactics. Red Eagles tells the story of this squadron from the first tests of MiGs following the Vietnam War when the USAF had been woefully under-prepared in aerial combat. These initial flights would develop into the "black" or classified program known internally as Constant Peg. At a secret air base in Nevada, ace American fighter pilots were presented with a range of different MiG jets with a simple remit: to expose "the threat" to as many of their brethren as possible. Maintaining and flying these "assets" without without spare parts or manuals was an almost impossible task, putting those flying the MiGs in mortal danger on every flight. Despite these challenges, in all more than 5,900 American aircrews would train against America's secret MiGs, giving them the eskills they needed to face the enemy in real combat situations. For the first time, this book tells the story of Constant Peg and the 4477th Red Eagles Squadron in the words of the men who made it possible.

Innovative and conceptual uses of photography within a highly developed Soviet dissident culture are explored in this examination of photography's place in late Soviet unofficial art. Simultaneous. Santo, the largest island in the South Pacific nation of Vanuatu, is an extraordinary geographical and cultural microcosm, combining reefs, caves, mountains, and satellite isles—with human history that dates back 3,000 years. Collecting contributions from more than one hundred authors, *The Natural History of Santo* is the result of a 2006 Santo expedition, which brought together scientists, volunteers, and students from twenty-five countries. This lavishly illustrated book pays homage to the biodiversity of this "planet-island" and bridges the gaps between scientific knowledge, conservation, and education.

This work is a collection of twenty-four fundamental essays on the many-sided topic of German exile literature during and after Hitler's Third Reich. Exile literature, which emerged in the 1980s as a special field of critical investigation within German Studies, embraced the diverse works of writers who were scattered from Hollywood to Moscow but were related by the common bond of exile from Germany. Leading American and European specialists in the field are contributors to the volume, which discusses the work of Thomas Mann, Bertolt Brecht, Hermann Broch and Karl Wolfskehl among others.

GRAPHIC DESIGN BASICS combines design principles, history, and current technology to present students a comprehensive introduction to the field of graphic design. Keeping pace with rapid changes in the field of design, while maintaining a consistently high academic quality, the text emphasizes design structure, visual perception and digital design, with a wide range of visuals from throughout design history, as well as the latest contemporary illustrations. Each chapter provides assignments with student sample solutions and critique sections to help students apply the concepts and assess their work. This market leader's interwoven combination of concept, history, and practice rarely found in other graphic design texts has been enriched by integrating material specific to digital design. The accompanying Premium Website offers students bonus images, interviews with artists featured in the text, additional projects, studio techniques and research links. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This open access book is the proceedings of the 14th International Symposium on Biomineralization (BIOMIN XIV) held in 2017 at Tsukuba. Over the past 45 years, biomineralization research has unveiled details of the characteristics of the nano-structure of various biominerals; the formation mechanism of this nano-structure, including the initial stage of crystallization; and the function of organic matrices in biominerals, and this knowledge has been applied to dental, medical, pharmaceutical, materials, agricultural and environmental sciences and paleontology. As such, biomineralization is an important interdisciplinary research area, and further advances are expected in both

fundamental and applied research. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

The family Bulimulidae is a dominant land snail family in the Neotropics, with more than 1000 nominal taxa described. Revisionary work has only partially been done, but many genera need further revisionary work for which a sound taxonomic basis is needed. Type specimens for more than 400 taxa of this family are present in the Natural History Museum, London, U.K., and are documented in this paper. For each taxon the relevant literature is cited, type locality, label, the provenance of the specimens, and the current systematic position; photographs of nearly all type specimens and labels are also provided.

Reproduction of the original: Mars and its Canals by Percival Lowell

There is more to appraising jewelry than just being parable sales and a value determination. Then, all this able to put a dollar value on an item. The title of ap information, with clear jewelry descriptions, must be praiser distinguishes the individual who is able to iden succinctly put together with photographs and deliv tify, witness, estimate status, excellence, or potential ered to the client. ity, and to determine the authenticity of an article. Today's jewelry appraiser should also be cognizant Many factors impact on a thorough appraisal, espe of the vicissitudes of fashion, how changes impact the cially on estate and period jewelry. jewelry market in a substantial and vital manner in both design and style. A careful look must be given to Developing all this expertise is a lot to ask of practi tioners who only a decade ago were barely making a study of color psychology with an awareness of why specific gemstones and their colors and enamels of cer distinction between a well-written sales receipt and a professional appraisal report. tain colors were used in different periods. Industrial In the past few years bold changes have taken place developments, from machine stamped jewelry, the use in this field. It is now understood that standard ap of aniline dyes in clothing, and development of the praisal concepts and principles can be applied to the electric light, have influenced design and use of gem stones.

In 2000, Hamid (anthropology, John Jay College of Criminal Justice, New York) made additions and revisions to his 1980s doctoral dissertation for Columbia University. He examines the plant cannabis, or marijuana, its 5,000-year-use as a magical herb, its use specifically among Caribbeans at home and in New York City and the economics of that use, and social science perspectives on claims made about it by both supporters and opponents. Annotation copyrighted by Book News, Inc., Portland, OR.

Written entirely by surgical endoscopists, *Principles of Flexible Endoscopy for Surgeons* presents a comprehensive overview of past, present, and future flexible gastrointestinal endoscopic techniques, with a focus on educating surgeons who may or may not already have the skills to perform flexible endoscopy. In addition to the endoscopic management of surgical issues, the volume describes the role of surgery in the management of endoscopic complications. Basic as well as advanced flexible endoscopic techniques are presented in both a didactic and visual mode, with representative endoscopic images and video clips. Recent endoscopic advancements which are not routinely a core component of surgical training programs are also covered in detail. Extensively illustrated with endoscopic images and accompanied by a DVD, *Principles of Flexible Endoscopy for Surgeons* is a valuable resource for surgeons on all facets of flexible endoscopy.

This book is intended to serve as a general introduction to Mesopotamian astrology, both its outward phenomena and its inner structure.

This thoroughly revised and expanded new edition now includes a more detailed treatment of the EM algorithm, a description of an efficient approximate Viterbi-training procedure, a theoretical derivation of the perplexity measure and coverage of multi-pass decoding based on n-best search. Supporting the discussion of the theoretical foundations of Markov modeling, special emphasis is also placed on practical algorithmic solutions. Features: introduces the formal framework for Markov

models; covers the robust handling of probability quantities; presents methods for the configuration of hidden Markov models for specific application areas; describes important methods for efficient processing of Markov models, and the adaptation of the models to different tasks; examines algorithms for searching within the complex solution spaces that result from the joint application of Markov chain and hidden Markov models; reviews key applications of Markov models.

Hydrological processes in forested watersheds are influenced by environmental, physiological, and biometric factors such as precipitation, radiation, temperature, species type, leaf area, and extent and structure of forest ecosystems. Over the past two centuries, forest coverage and forest structures have been impacted globally by anthropogenic activities, for example, forest harvesting, and conversion of forested landscapes for plantations and urbanization. In addition, since the industrial revolution, climate change has resulted in profound impacts on forest ecosystems due to higher carbon dioxide (CO₂) concentration or CO₂ fertilization, warmer temperatures, changes in frequency and intensity of extreme weather events and natural disturbances. As a result, hydrological processes in forested watersheds have been altered by these natural and anthropogenic factors and these changes are expected to accelerate due to future changing climatic conditions. Hence, understanding how various environmental, physiological, and physical drivers interactively influence hydrological and biogeochemical processes in forest ecosystems is critical for sustainable water supply in forested watersheds. About 21% of the global population depends on water sources that originate in forested catchments where forest coverage larger than 30%. Furthermore, there are knowledge gaps in our understanding of the mechanism of hydrological and hydrochemical cycles in forested watersheds. This Special Issue addresses these gaps in our knowledge and includes twelve papers in the following three major research themes in forest watershed areas.

It is generally accepted that training in statistics must include some exposure to the mechanics of computational statistics. This learning guide is intended for beginners in computer-aided statistical data analysis. The prerequisites for XploRe - the statistical computing environment - are an introductory course in statistics or mathematics. The reader of this book should be familiar with basic elements of matrix algebra and the use of HTML browsers. This guide is designed to help students to XploRe their data, to learn (via data interaction) about statistical methods and to disseminate their findings via the HTML outlet. The XploRe APSS (Auto Pilot Support System) is a powerful tool for finding the appropriate statistical technique (quantlet) for the data under analysis. Homogeneous quantlets are combined in XploRe into quantlibs. The XploRe language is intuitive and users with prior experience of other statistical programs will find it easy to reproduce the examples explained in this guide. The quantlets in this guide are available on the CD-ROM as well as on the Internet. The statistical operations that the student is guided into range from basic one-dimensional data analysis to more complicated tasks such as time series analysis, multivariate graphics construction, microeconometrics, panel data analysis, etc. The guide starts with a simple data analysis of pullover sales data, then in troduces graphics. The graphics are interactive and cover a wide range of dis plays of statistical data.

"This pioneering study derives Hinduism from the traditions brought to South Asia by Aryan-speaking pastoralists from the Eurasian steppes and those of the Indus Civilization, reconstructed from its visual and inscriptional remains and from West Asian and classical/modern South Asian sources"--

This handbook supersedes FAA-H-8261 -16, *Instrument Procedures Handbook*, dated 2014. It is designed as a technical reference for all pilots who operate under instrument flight rules (IFR) in the National Airspace System (NAS). It expands and updates information contained in the FAA-H-8083-15B, *Instrument Flying Handbook*, and introduces advanced information for IFR operations. Instrument flight instructors, instrument pilots, and instrument students will also find this handbook a valuable resource since it is used as a reference for the Airline Transport Pilot and Instrument Knowledge Tests and for the Practical Test Standards. It also provides detailed coverage of instrument charts and procedures including IFR takeoff, departure, en route, arrival, approach, and

landing. Safety information covering relevant subjects such as runway incursion, land and hold short operations, controlled flight into terrain, and human factors issues also are included.

*Algorithmically Generated Values - exercises are taken directly from your textbook's end-of-chapter exercises and enhanced with algorithmically generated values.

Artificial intelligence (AI) is regarded as the science and technology for producing an intelligent machine, particularly, an intelligent computer program. Machine learning is an approach to realizing AI comprising a collection of statistical algorithms, of which deep learning is one such example. Due to the rapid development of computer technology, AI has been actively explored for a variety of academic and practical purposes in the context of financial markets. This book focuses on the broad topic of "AI and Financial Markets", and includes novel research associated with this topic. The book includes contributions on the application of machine learning, agent-based artificial market simulation, and other related skills to the analysis of various aspects of financial markets.

IQ and psychometric tests are increasingly used in recruitment and selection procedures by those companies who want to ensure they employ workers of the highest calibre. With hundreds of questions on verbal, numerical and spatial ability, memory, creativity and personality, IQ and Psychometric Tests will help you to weigh up your strengths and weaknesses and improve your score. It also includes two full length IQ tests. Vital preparation for anyone facing these tests as part of a recruitment procedure, IQ and Psychometric Tests will also appeal to anyone who enjoys stretching their mind and exercising their brain.

This publication provides information on detailed methodologies and examples in the application of volcanic hazard assessment to site evaluation for nuclear installations, thereby addressing the recommendations in IAEA Safety Standards Series No. SSG-21, Volcanic Hazards in Site Evaluation for Nuclear Installations. It demonstrates the practicability of evaluating the recommendations through a systematic volcanic hazard assessment and examples from Member States. The results of this hazard assessment can be used to derive the appropriate design bases and operational considerations for specific nuclear installations.

This book tells the story of Kwame Nkrumah, the first post-colonial president of an independent African country. The book utilizes previously unpublished and recently declassified US State Department documents to give an analysis and a chronology of Nkrumah's fall. The book is written for a general audience and for academic historians and students.

In recent years the approach towards rib fractures has evolved. Abandoned in the past, due to inadequate instrumentation and lack of evidence, rib fixation has recently re-emerged as a treatment option for trauma patients. There have been a number of advances over the last 25 years that now allow surgeons to internally fix rib fractures that otherwise may have not had other options. However, as a result there has been a rapid increase in literature and many institutions interested in initiating rib fixation programs. Due to a variety of practitioners involved namely, trauma surgeons, orthopedic surgeons, and thoracic surgeons there has been no comprehensive guide to patient selection, technique, and post-operative care. The purpose of this text is to fill the educational gap for those trauma, orthopedic, and thoracic surgeons interested in learning the cutting edge evidence-based approaches to treatment of rib fractures. This topic has caught the interest of many and has been a recurrent theme at surgical meetings over the last two years. Although there has been ever increasing levels of interest and experience nationally there are many questions which remain. This text will provide not only the theoretical background for improving outcomes in those with rib fractures but also serve as a practical guide to those interested in starting new programs. The text will include tips and tricks that can be used in the OR or at the bedside to improve patient care. Therefore, the focus will be on a comprehensive review but also including tips and tricks from the most experienced surgeons around the country who are performing internal fixation for rib fractures.

This is a print on demand edition of a hard to find publication. Examines terrorists' involvement in a variety of crimes ranging from motor vehicle violations, immigration fraud, and mfg. illegal firearms to counterfeiting, armed bank robbery, and smuggling weapons of mass destruction. There are 3 parts: (1) Compares the criminality of internat. jihad groups with domestic right-wing groups. (2) Six case studies of crimes includes trial transcripts, official reports, previous scholarship, and interviews with law enforce. officials and former terrorists are used to explore skills that

made crimes possible; or events and lack of skill that the prevented crimes. Includes brief bio. of the terrorists along with descriptions of their org., strategies, and plots. (3) Analysis of the themes in closing arguments of the transcripts in Part 2. Illus.

In *Collective Courage*, Jessica Gordon Nembhard chronicles African American cooperative business ownership and its place in the movements for Black civil rights and economic equality. Not since W. E. B. Du Bois's 1907 *Economic Co-operation Among Negro Americans* has there been a full-length, nationwide study of African American cooperatives. *Collective Courage* extends that story into the twenty-first century. Many of the players are well known in the history of the African American experience: Du Bois, A. Philip Randolph and the Ladies' Auxiliary to the Brotherhood of Sleeping Car Porters, Nannie Helen Burroughs, Fannie Lou Hamer, Ella Jo Baker, George Schuyler and the Young Negroes' Co-operative League, the Nation of Islam, and the Black Panther Party. Adding the cooperative movement to Black history results in a retelling of the African American experience, with an increased understanding of African American collective economic agency and grassroots economic organizing. To tell the story, Gordon Nembhard uses a variety of newspapers, period magazines, and journals; co-ops' articles of incorporation, minutes from annual meetings, newsletters, budgets, and income statements; and scholarly books, memoirs, and biographies. These sources reveal the achievements and challenges of Black co-ops, collective economic action, and social entrepreneurship. Gordon Nembhard finds that African Americans, as well as other people of color and low-income people, have benefitted greatly from cooperative ownership and democratic economic participation throughout the nation's history.

Presenting helpful hints, tips, a comprehensive inventory of equipment, and more, Jo Ashburn reveals the most effective strategies for playing the popular science fiction game, *The Dig*. Players learn the best ways to join Commander Boston Low and his two companions on their mission to knock an asteroid off its collision-course with the Earth. Plus more action-packed adventure.

This book covers both basic scientific and clinically relevant aspects of dental composite materials with a view to meeting the needs of researchers and practitioners. Following an introduction on their development, the composition of contemporary composites is analyzed. A chapter on polymerization explains the setting reactions and light sources available for light-cured composites. The quality of monomer-to-polymer conversion is a key factor for material properties. Polymerization shrinkage along with the associated stress remains among the most challenging issues regarding composite restorations. A new classification of dental composites is proposed to offer more clinically relevant ways of differentiating between commercially available materials. A review of specific types of composites provides an insight into their key issues. The potential biological issues of dental composites are reviewed in chapters on elution of leachable substances and cariogenicity of resin monomers. Clinical sections focus on material placement, finishing procedures, and the esthetics and clinical longevity of composite restorations. Bonding to tooth tissues is addressed in a separate chapter, as is the efficiency of various composite repair methods. The final chapter discusses future perspectives on dental composite materials.

Since the nineteenth century, the Ohio River has represented a great divide for African Americans. It provided a passage to freedom along the underground railroad, and during the industrial age, it was a boundary between the Jim Crow South and the urban North. The Ohio became known as the "River Jordan," symbolizing the path to the promised land. In the urban centers of Pittsburgh, Cincinnati, Louisville, and Evansville, blacks faced racial hostility from outside their immediate neighborhoods as well as class, color, and cultural fragmentation among themselves. Yet despite these pressures, African Americans were able to create vibrant new communities as former agricultural workers transformed themselves into a new urban working class. Unlike most studies of black urban life, Trotter's work considers several cities and compares their economic conditions, demographic makeup, and political and cultural conditions. Beginning with the arrival of the first blacks in the Ohio Valley, Trotter traces the development of African American urban centers through the civil rights movement and the developments of recent years.

When an asteroid out of nowhere threatens to hit Earth, a space shuttle is sent to nudge it into a safe orbit. Venturing to the surface, three crew members become trapped as the asteroid suddenly leaves orbit, transporting them to a strange planet light years away. To find their way home, the in-

trepid explorers must embark on a dangerous archaeological adventure in this tale of galactic intrigue and suspense.

Inspired by Gandhi's non-violent campaign of civil disobedience to achieve political ends, Kwame Nkrumah led present-day Ghana to independence. This analysis of his political, social and economic thought centres on his own writings, and re-examines his life and thought by focusing on the political discourse and controversies surrounding him.

"Girl Sex 101 is the best sex guide in years." - DIVA Magazine Girl Sex 101 is a sex-ed book like no other, offering helpful info for ladies and lady-lovers of all genders and identities, playful and informative illustrations on each page, and over 100 distinct voices, plus a hot narrative that shows you how to put the info to good use! Learn how to navigate the twists and turns of female sexuality, with special guidance from thirteen guest sex educators including Nina Hartley, Sex Nerd Sandra, Jiz Lee, Tristan Taormino, Julia Serano, Reid Mihalko and more! Girl Sex 101 will teach you... *The bits and pieces that make up female sexual anatomy *Simple ways to communicate in the heat of the moment *How to build a Road Map of your partner's pleasure *Essential moves for cunnilingus, strap-ons, hand sex and more! *Positions to avoid fatigue and generate the power you need to rock your girl's world! You'll gain confidence to please your girl, no matter what your hands-on experience. Buckle your seat belt and get ready to ride!

MatLab, Third Edition is the only book that gives a full introduction to programming in MATLAB combined with an explanation of the software's powerful functions, enabling engineers to fully exploit its extensive capabilities in solving engineering problems. The book provides a systematic, step-by-step approach, building on concepts throughout the text, facilitating easier learning. Sections on common pitfalls and programming guidelines direct students towards best practice. The book is organized into 14 chapters, starting with programming concepts such as variables, assignments, input/output, and selection statements; moves onto loops; and then solves problems using both the 'programming concept' and the 'power of MATLAB' side-by-side. In-depth coverage is given to input/output, a topic that is fundamental to many engineering applications. Vectorized Code has been made into its own chapter, in order to emphasize the importance of using MATLAB efficiently. There are also expanded examples on low-level file input functions, Graphical User Interfaces, and use of MATLAB Version R2012b; modified and new end-of-chapter exercises; improved labeling of plots; and improved standards for variable names and documentation. This book will be a valuable resource for engineers learning to program and model in MATLAB, as well as for undergraduates in engineering and science taking a course that uses (or recommends) MATLAB. Presents programming concepts and MATLAB built-in functions side-by-side Systematic, step-by-step approach, building on concepts throughout the book, facilitating easier learning Sections on common pitfalls and programming guidelines direct students towards best practice

At present, computational methods have received considerable attention in economics and finance as an alternative to conventional analytical and numerical paradigms. This Special Issue brings together both theoretical and application-oriented contributions, with a focus on the use of computational techniques in finance and economics. Examined topics span on issues at the center of the literature debate, with an eye not only on technical and theoretical aspects but also very practical cases.

Biologically Inspired Networking and Sensing: Algorithms and Architectures offers current perspectives and trends in biologically inspired networking, exploring various approaches aimed at improving network paradigms. Research contained within this compendium of research papers and surveys introduces researches in the fields of communication networks, performance modeling, and distributed computing to new advances in networking.

Each person is born in a circumstance which is not of his own choosing. The religion of his family or the ideology of the state is thrust upon him from the very beginning of his existence in this world. By the time he reaches his teens, he is usually fully brain-washed into believing that the beliefs of his particular society are the correct beliefs that everyone should have. However, when some people mature and are exposed to other belief-systems, they begin to question the validity of their own beliefs. The seekers of truth often reach a point of confusion upon realizing that each and every religion, sect, ideology and philosophy claims to be the one and only correct way for man. Indeed, they all encourage people to do good. So, which one is right?