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Springer Science & Business Media

Stress Field of the Earth's Crust is based on lecture notes prepared for a course offered to graduate students in the Earth sciences and engineering at University of Potsdam. In my opinion, it will undoubtedly also become a standard reference book on the desk of most scientists working with rocks, such as geophysicists, structural geologists, rock mechanics experts, as well as geotechnical and petroleum engineers. That is because this book is concerned with what is probably the most peculiar characteristic of rock – its initial stress condition. Rock is always under a natural state of stress, primarily a result of the gravitational and tectonic forces to which it is subjected. Crustal stresses can vary regionally and locally and can reach in places considerable magnitudes, leading to natural or man-made mechanical failure. P- existing stress distinguishes rock from most other materials and is at the core of the discipline of "Rock Mechanics", which has been developed over the last century. Knowledge of rock stress is fundamental to understanding faulting mechanisms and earthquake triggering, to designing stable underground caverns and productive oil fields, and to improving mining methods and geothermal energy extraction, among others. Several books have been written on the subject, but none has attempted to be as all-encompassing as the one by Zang and Stephansson.

Applied Sciences in Graphic Communication and Packaging John Wiley & Sons

In line with the World Declaration on Education for All and the Millennium Goal of halving poverty in the world by the year 2015, education is expected to serve not only the acquisition of academic knowledge but also the preparation of young people for life and work. Secondary education has to meet the challenge of providing skills for successfully dealing with economies and work patterns in transition and changing cultural values. Education that makes young people entrepreneurial in a broad sense would be part of this solution. This volume draws on various experiences in entrepreneurial education around the world. It aims to provoke discussion on such questions as: How can we harness the imagination and entrepreneurial talents of secondary students as assets for development? How should these talents be channelled? What are the contents, subjects, topics that support the entrepreneurial process? What is the best institutional framework for entrepreneurship education? What kind of teacher is needed? How do we systematically measure the performance of entrepreneurship education and training?

Trease and Evans' Pharmacognosy National Academies Press

This book includes a selection of reviewed papers presented at the 49th Conference of the International Circle of Educational Institutes for Graphic Arts Technology and Management & 8th China Academic Conference on Printing and Packaging, which was held on May 14-16, 2017 in Beijing, China. The conference was jointly organized by the Beijing Institute of Graphic Communication, China Academy of Printing Technology, and International Circle of Educational Institutes for Graphic Arts Technology and Management. With eight keynote talks and 200 presented papers on graphic communication and packaging technologies, the event attracted more than 400 scientists. The proceedings cover the latest advances in color science and technology; image processing technology; digital media technology; digital process management technology in packaging; packaging, etc., and will be of interest to university researchers, R&D engineers and graduate students in the graphic arts, packaging, color science, image science, material science, computer science, digital media and network technology.

Japanese Current Research Dempa Digest Digital Printing of Textiles

Dempa Digest Digital Printing of Textiles Woodhead Publishing

Process Control in Textile Manufacturing CRC Press

The BMW 3 Series (F30, F31, F34) Service Manual: 2012-2015 contains in-depth maintenance, service and repair information for the BMW 3 Series from 2012 to 2015. The aim throughout has been simplicity and clarity, with practical explanations, step-by-step procedures and accurate specifications. Whether you're a professional or a do-it-yourself BMW owner, this manual helps you understand, care for and repair your 3 Series. Engines (Gasoline): N20 engine: 320i, 328i, including xDrive N26 (SULEV) engine: 328i including xDrive N55 engine: 335i, including xDrive

Florida Ethnobotany Springer

This book addresses a broad range of topics on antennas for space applications. First, it introduces the

fundamental methodologies of space antenna design, modelling and analysis as well as the state-of-the-art and anticipated future technological developments. Each of the topics discussed are specialized and contextualized to the space sector. Furthermore, case studies are also provided to demonstrate the design and implementation of antennas in actual applications. Second, the authors present a detailed review of antenna designs for some popular applications such as satellite communications, space-borne synthetic aperture radar (SAR), Global Navigation Satellite Systems (GNSS) receivers, science instruments, radio astronomy, small satellites, and deep-space applications. Finally it presents the reader with a comprehensive path from space antenna development basics to specific individual applications. Key Features: Presents a detailed review of antenna designs for applications such as satellite communications, space-borne SAR, GNSS receivers, science instruments, small satellites, radio astronomy, deep-space applications Addresses the space antenna development from different angles, including electromagnetic, thermal and mechanical design strategies required for space qualification Includes numerous case studies to demonstrate how to design and implement antennas in practical scenarios Offers both an introduction for students in the field and an in-depth reference for antenna engineers who develop space antennas This book serves as an excellent reference for researchers, professionals and graduate students in the fields of antennas and propagation, electromagnetics, RF/microwave/millimetrewave systems, satellite communications, radars, satellite remote sensing, satellite navigation and spacecraft system engineering. It also aids engineers technical managers and professionals working on antenna and RF designs. Marketing and business people in satellites, wireless, and electronics area who want to acquire a basic understanding of the technology will also find this book of interest.

Dempa Digest Woodhead Publishing

This work presents up-to-date information on chemical, pharmacological, clinical studies and historical uses of common dietary Chinese herbs. Authored by native experts in the field, the reader is introduced to each herb with a brief chronological review of Chinese literature on dietary herb uses, with chapters dedicated to each selected herb including color photos for each herb. In addition, Chinese characters as well as the Latin botanical name indices, and chemical structures for the known active compounds are also provided. The clear layout examines the health benefits that have been studied for centuries, including current clinical and toxicological data. A wide range of Traditional Chinese Medicine (TCM) herbs are investigated for their suitability into daily diets for maintaining general wellness or disease prevention. In the past decades, natural health products, dietary supplements, functional foods, or nutraceuticals have emerged in the West due to the increasing demand for non-pharmaceutical healthcare products. Traditional Chinese Medicine disease prevention and treatment incorporates the use of foods, and herbal medicine in an integrated manner, and thus the dietary Chinese herbs in used in TCM for thousands of years could be sources for developing new, effective, and safe ingredients to capture the rapidly expanding opportunity in the global market place.

Who's Who in Science and Engineering 2008-2009 Springer Science & Business Media

Greenhouse horticulture is one of the most intensive agricultural systems, focusing on the production of high-value products. This book presents current research findings that cover a wide range of new technologies and novel agricultural practices, which are preconditions for successful production in a very competitive global environment.

Encyclopedia of Labels and Label Technology Bentley Publishers

This encyclopedic reference work on pharmacognosy covers the study of those natural substances, principally plants, that find a use in medicine. Its popularity and longevity stem from the book's balance between classical (crude and powdered drugs' characterization and examination) and modern (phytochemistry and pharmacology) aspects of this branch of science, as well as the editor's recognition in recent years of the growing importance of complementary medicines, including herbal, homeopathic and aromatherapy. No other book provides such a wealth of detail. A reservoir of knowledge in a field where there is a resurgence of interest - plants as a source of drugs are of growing interest both in complementary medicine fields and in the pharmaceutical industry in their search for new 'lead compounds'. Dr Evans has been associated with the book for over 20 years and is a recognised authority in all parts of the world where pharmacognosy is studied, his knowledge and grasp of the subject matter is unique. Meticulously referenced and kept up to date by the editor, new contributors brought in to cover new areas. New chapter on 'Neuroceuticals'. Addition of many new compounds recently added to British Pharmacopoeia as a result of European harmonisation. Considers development in legal control and standardisation of plant materials previously regarded as 'herbal medicines'. More on the study of safety and efficacy of Chinese and Asian drugs. Quality control issues updated in line with latest guidelines (BP 2007).

Women in 3D Printing World Bank Publications

This book provides a detailed guide to neonatal surgery and its related disciplines including: fetal medicine, fetal surgery, radiology, newborn anaesthesia, intensive care, neonatal medicine, medical genetics, pathology, cardiac surgery, and urology. The book aims to cover all the latest advances in newborn surgery, with contributions from the basic sciences and laboratory research to reflect the steady progress in our current working knowledge and understanding of many neonatal surgical disorders. As huge advances have been made in neonatal surgery in the past decades, ethical issues,

long term outcomes, and quality of life are also emphasised. This book is an authoritative reference for surgical residents in training, consultant surgeons, general surgeons with an interest in paediatric surgery, neonatologists, paediatricians, intensive care specialists, and nursing staff.

U.S. - Israeli Strategic Cooperation In The Post-cold War Era Elsevier

Sections 1-2. Keyword Index.--Section 3. Personal author index.--Section 4. Corporate author index.--

Section 5. Contract/grant number index, NTIS order/report number index 1-E.--Section 6. NTIS

order/report number index F-Z.

Inkjet Technology for Digital Fabrication Academic Press

Winner of the 2005 Klinger Book Award Presented by The Society for Economic Botany.

Florida Ethnobotany provides a cross-cultural examination of how the states native plants have been used by its various peoples. This compilation includes common names of plants in their historical sequence, weaving together what was formerly esoteric

Dietary Chinese Herbs John Wiley & Sons

What is metadata? When do you need to archive digital content? How does electronic publication affect copyrights? How can XML and PDF improve your workflow and your publications? There is a digital dimension to virtually all publishing today. Beyond the obvious electronic media -- the music and movies we take for granted, the increasingly indispensable Web, the eBooks that most of us will take for granted in a few years -- almost everything we read, even on paper, was produced digitally. This new digital world offers a steadily increasing number of choices. It is this rich and rapidly changing publishing environment for which The Columbia Guide to Digital Publishing was created. Although there is a vast amount of information on a host of topics relevant to digital production and publishing available -- some in print, more on the Web -- there has been, until now, no single resource to which those involved in any dimension of publishing could turn for guidance. The Columbia Guide to Digital Publishing fills that need. The Guide is definitive: written by experts in the broad array of subjects it covers, it provides reliable, authoritative, user-friendly information about a vast number of topics. Designed to be the first place to go to learn about any of the numerous interrelated issues that define the digital publishing landscape, it offers readers a multilevel approach, from a brief glossary definition of a technical term or acronym (sometimes all a user needs), to a concise discussion of a topic (comprehensible to the lay person, yet useful for the technical expert). It puts a subject in the context of other topics and broader issues, with real-world examples, liberal cross-references, and pointers to sources of further information in print or electronic form.

Space Antenna Handbook Marquis Whos Who

This study moves from a history of the American-Israeli strategic relationship since 1967 to an assessment of the permanency of US-Israeli strategic ties, their purpose in the eyes of both partners, and their susceptibility to future pressures. It includes an examination of the relationship under the strain of the 1991 Gulf War.

Toxicological Profile for 1,2-dichloropropane Elsevier

This book provides insights into the possibilities, realities and challenges of the rapidly evolving world of 3D printing or additive manufacturing. Contributors cover the applications for 3D printing, available materials, research, and the business of additive manufacturing from start-ups to Fortune 500 companies. As an important part of the Women in Science and Engineering book series, the work highlights the contribution of women leaders in additive manufacturing, inspiring women and men, girls and boys to enter and apply themselves to world of 3D printing and be a part of bringing the true potential of 3D printing to fruition. The book features contributions of prominent female engineers, scientists, business and technology leaders in additive manufacturing from academia, industry and government labs. Provides insight into women's contributions to the field of additive manufacturing; Presents information from academia, research, government labs and industry into advances and applications in the rapidly evolving and growing field of 3D printing; Includes applications in industries such as medicine, aerospace, and automotive.

Illinois Services Directory Springer Nature

Useful throughout history for their medical as well as other benefits, plant-derived compounds have gained particular importance recently, due to environmental factors. The isolation and characterization of plant products, the identification of their role in the plant, and ways of synthesizing identical compounds or more potent analogues are covered. Also includes methods of culturing plant tissues and genetic engineering as a means of increasing the yield of desired substances from plants. Special emphasis is placed on plants previously unknown to Western scientists.

Frequency Independent Antennas UNESCO

In a world where advanced knowledge is widespread and low-cost labor is readily available, U.S. advantages in the marketplace and in science and technology have begun to erode. A comprehensive and coordinated

federal effort is urgently needed to bolster U.S. competitiveness and pre-eminence in these areas. This congressionally requested report by a pre-eminent committee makes four recommendations along with 20 implementation actions that federal policy-makers should take to create high-quality jobs and focus new science and technology efforts on meeting the nation's needs, especially in the area of clean, affordable energy: 1) Increase America's talent pool by vastly improving K-12 mathematics and science education; 2) Sustain and strengthen the nation's commitment to long-term basic research; 3) Develop, recruit, and retain top students, scientists, and engineers from both the U.S. and abroad; and 4) Ensure that the United States is the premier place in the world for innovation. Some actions will involve changing existing laws, while others will require financial support that would come from reallocating existing budgets or increasing them. Rising Above the Gathering Storm will be of great interest to federal and state government agencies, educators and schools, public decision makers, research sponsors, regulatory analysts, and scholars.

#### Bioactive Compounds from Plants Penn State Press

This book includes a selection of reviewed papers presented at the 2015, 4th China Academic Conference on Printing and Packaging, which was held on October 22-24, 2015 in Hangzhou, China. The conference was jointly organized by the China Academy of Printing Technology, Beijing Institute of Graphic Communication, and Hangzhou Dianzi University. With 3 keynote talks and 200 presented papers on graphic communications, packaging technologies and materials, the conference attracted more than 400 scientists. These proceedings cover the recent research outcomes on color science and technology, image-processing technology, digital-media technology, printing-engineering technology, packaging-engineering technology etc. They will be of interest to university researchers, R&D engineers and graduate students in graphic communications, packaging, color science, image science, materials science, computer science, digital media and network technology fields.

#### Forthcoming Books Springer

This major textbook is designed for students studying textiles and fashion at higher and undergraduate level, as well as those needing a comprehensive and authoritative overview of textile materials and processes. The first part of the book reviews the main types of natural and synthetic fibres and their properties. Part two provides a systematic review of the key processes involved first in converting fibres into yarns and then transforming yarns into fabrics. Part three discusses the range of finishing techniques for fabrics. The final part of the book looks specifically at the transformation of fabric into apparel, from design and manufacture to marketing. With contributions from leading experts in their fields, this major book provides the definitive one-volume guide to textile manufacture. Provides comprehensive coverage of the types and properties of textile fibres to yarn and fabric manufacture, fabric finishing, apparel production and fashion Focused on the needs of college and undergraduate students studying textiles or fashion courses Each chapter ends with a summary to emphasise key points, a comprehensive self-review section, and project ideas are also provided

#### Fungal Infections in Immunocompromised Hosts Routledge

Handbook of Vegetables and Vegetable Processing, Second Edition is the most comprehensive guide on vegetable technology for processors, producers, and users of vegetables in food manufacturing. This complete handbook contains 42 chapters across two volumes, contributed by field experts from across the world. It provides contemporary information that brings together current knowledge and practices in the value-chain of vegetables from production through consumption. The book is unique in the sense that it includes coverage of production and postharvest technologies, innovative processing technologies, packaging, and quality management. Handbook of Vegetables and Vegetable Processing, Second Edition covers recent developments in the areas of vegetable breeding and production, postharvest physiology and storage, packaging and shelf life extension, and traditional and novel processing technologies (high-pressure processing, pulse-electric field, membrane separation, and ohmic heating). It also offers in-depth coverage of processing, packaging, and the nutritional quality of vegetables as well as information on a broader spectrum of vegetable production and processing science and technology. Coverage includes biology and classification, physiology, biochemistry, flavor and sensory properties, microbial safety and HACCP principles, nutrient and bioactive properties In-depth descriptions of key processes including, minimal processing, freezing, pasteurization and aseptic processing, fermentation, drying, packaging, and application of new technologies Entire chapters devoted to important aspects of over 20 major commercial vegetables including avocado, table olives, and textured vegetable proteins This important book will appeal to anyone studying or involved in food technology, food science, food packaging, applied nutrition, biosystems and agricultural engineering, biotechnology, horticulture, food biochemistry, plant biology, and postharvest physiology.