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Contemporary Asian Art Simon and Schuster

"The Apollo 15 mission was the first of the Apollo missions to utilize the full capability of a complex set of spacecraft and launch vehicles... provided results that furnish many new insights into lunar history and structure. Perhaps most important of all, this mission provided results that give a meaningful overall picture of the Moon. The scientific endeavors of the Apollo 15 mission can be divided into three distinct kinds of activities: (1) the orbital experiments, 12) the package of lunar-surface experiments, and (3) the surface sampling and observation."--p. xi.

Measurements of Neutrino Mass Radiocarbon Department of Geosciences University of Arizona

Reverse engineering is widely practiced in the rubber industry. Companies routinely analyze competitors ’ products to gather information about specifications or compositions. In a competitive market, introducing new products with better features and at a faster pace is critical for any manufacturer. Reverse Engineering of Rubber Products: Concepts, Tools, and Techniques explains the principles and science behind rubber formulation development by reverse engineering methods. The book describes the tools and analytical techniques used to discover which materials and processes were used to produce a particular vulcanized rubber compound from a combination of raw rubber, chemicals, and pigments. A Compendium of Chemical, Analytical, and Physical Test Methods Organized into five chapters, the book first reviews the construction of compounding ingredients and formulations, from elastomers, fillers, and protective agents to vulcanizing chemicals and processing aids. It then discusses chemical and analytical methods, including infrared spectroscopy, thermal analysis, chromatography, and microscopy. It also examines physical test methods for visco-elastic behavior, heat aging, hardness, and other features. A chapter presents important reverse engineering concepts. In addition, the book includes a wide variety of case studies of formula reconstruction, covering large products such as tires and belts as well as smaller products like seals and hoses. Get Practical Insights on Reverse Engineering from the Book ’ s Case Studies

Combining scientific principles and practical advice, this book brings together helpful insights on reverse engineering in the rubber industry. It is an invaluable reference for scientists, engineers, and researchers who want to produce comparative benchmark information, discover formulations used throughout the industry, improve product performance, and shorten the product development cycle.

Coping with Inflation Dramatists Play Service, Inc.

Breathtaking in scope, this is the first survey of the entire ecological history of life on land—from the earliest traces of terrestrial organisms over 400 million years ago to the beginning of human agriculture. By providing myriad insights into the unique ecological information contained in the fossil record, it establishes a new and ambitious basis for the study of evolutionary paleoecology of land ecosystems. A joint undertaking of the Evolution of Terrestrial Ecosystems Consortium at the National Museum of Natural History, Smithsonian Institution, and twenty-six additional researchers, this book begins with four chapters that lay out the theoretical background and methodology of the science of evolutionary paleoecology. Included are a comprehensive review of the taphonomy and paleoenvironmental settings of fossil deposits as well as guidelines for developing ecological characterizations of extinct organisms and the communities in which they lived. The remaining three chapters treat the history of terrestrial ecosystems through geological time, emphasizing how ecological interactions have changed, the rate and tempo of ecosystem change, the role of exogenous "forcing factors" in generating ecological change, and the effect of ecological factors on the evolution of biological diversity. The six principal authors of this volume are all associated with the Evolution of Terrestrial Ecosystems program at the National Museum of Natural History, Smithsonian Institution.

Bad Seed Geological Society of America

Reverse Engineering of Rubber ProductsCRC Press

Experimental Techniques in High-energy Nuclear and Particle Physics IOS Press

Experimental Techniques in High-Energy Nuclear and Particle Physics is a compilation of outstanding technical papers and reviews of the ingenious methods developed for experimentation in modern nuclear and particle physics. This book, a second edition, provides a balanced view of the major tools and technical concepts currently in use, and elucidates the basic principles that underly the detection devices. Several of the articles in

this volume have never been published, or have appeared in relatively inaccessible journals. Although the emphasis is on charged-particle tracking and calorimetry, general reviews of ionization detectors and Monte Carlo techniques are also included.This book serves as a compact source of reference for graduate students and experimenters in the fields of nuclear and particle physics, seeking information on some of the major ideas and techniques developed for modern experiments in these fields.

Canada in Flanders University of Arizona Press

Proceedings of the Janus Conference sponsored by the Department of Health and Human Performance at the University of Nebraska--Lincoln

Lunar Sourcebook Springer Science & Business Media

This series of meetings bring together experts working in this field of Science from throughout the world. A major feature of each conference session is an invited review, which outlines the advances that have been made in a particular area since the last meeting. A major factor that was considered at this meeting was the likely impact of plant genetic modification on the nutritional quality of their seeds for human and animal feeding. As an example already a number of legume species and rapeseed have been modified to improve the sulphur amino acid content of their seed and thus their protein quality. Besides the major grain legume species and rapeseed that had been discussed at previous meetings in this series number of crop products, as potential protein sources, for animal feeding, were considered for the first time. These included cottonseed meal, linseed meal, and sunflower seed meal. The potential of some new exotic crops from Mexico was also covered including Mexican species of the genus Lupinus and a Mexican plant from the same family as castor bean, which has a very high oil content but is usually toxic. Work from Cuba compared the nutritional characteristics of soybean with a range of tropical grain legume species, which have received little previous attention. A major change at this meeting was the greater consideration of the effects, both positive, and negative, of the consumption of these seeds for human nutrition. A major review on the development of allergnicity to legume seed in humans is included. There was also consideration of the potential role of antinutritional factors in reducing the growth of various types of tumour cells. The presented papers also suggest that the consumption of legume seed in the diet can potentially reduce serum cholesterol levels. Overall from the 5 conference sessions there are 52 papers. Of these 7 are major invited reviews on the current state of research in this important area for human and animal feeding.

LSC 2001, Advances in Liquid Scintillation Spectrometry Academic Press

Cryo-EM Part A: Sample Preparation and Data Collection is dedicated to a description of the instruments, samples, protocols, and analyses that belong to cryo-EM. It emphasizes the relatedness of the ideas, instrumentation, and methods underlying all cryo-EM approaches, which allow practitioners to easily move between them. Within each section, the articles are ordered according to the most common symmetry of the sample to which their methods are applied. Includes time-tested core methods and new innovations applicable to any researcher Methods included are useful to both established researchers and newcomers to the field Relevant background and reference information given for procedures can be used as a guide

Terrestrial Ecosystems Through Time Springer Nature

Purpose of Equipment: The CCMCK Weapon Conversion System allows Force-On-Force close combat training bytemporarily converting service weapons (M16A2/M16A3/M16A4 Rifles, M4/M4A1 Carbines, M249 Squad AutomaticWeapons (SAW), and M9 and M11 Pistols) to fire low-velocity marking ammunition. CCMCK ammunitionincludes 5.56mm Bulk marking ammunition for the M16A2/M16A3/M16A4 Rifle and M4/M4A1 Carbine, 5.56mmLinked marking ammunition for the M249 SAW, and 9mm marking ammunition for the M9 and M11 Pistols. Markingammunition, manufactured in red, blue, and yellow, is loaded into the magazine of the converted weapon in the samemanner as service ammunition. Once loaded, the weapon cycles and functions the same as service ammunition andmarks the target with minimal hazard to personnel wearing appropriate safety equipment. The system allows normalweapon employment cues such as aiming, firing, Force-On-Force training, and interactive live-fire scenario task and mission execution.

Apollo 15: Preliminary Science Report CRC Press

"Many artists seek to attain immortality through their art, but few would expect their work to outlast the human race and live on for billions of years. As Canadian poet Christian Bök has realized, it all comes down to the durability of your materials."—The Guardian Internationally best-selling poet Christian Bök has spent more than ten years writing what promises to be the first example of "living poetry." After successfully demonstrating his concept in a colony of E. coli, Bök is on the verge of enciphering a beautiful, anomalous poem into the genome of an unkillable bacterium (Deinococcus radiodurans), which can, in turn, "read" his text, responding to it by manufacturing a

viable, benign protein, whose sequence of amino acids enciphers yet another poem. The engineered organism might conceivably serve as a post-apocalyptic archive, capable of outlasting our civilization. Book I of The Xenotext constitutes a kind of "demonic grimoire," providing a scientific framework for the project with a series of poems, texts, and illustrations. A Virgilian welcome to the Inferno, Book I is the "orphic" volume in a diptych, addressing the pastoral heritage of poets, who have sought to supplant nature in both beauty and terror. The book sets the conceptual groundwork for the second volume, which will document the experiment itself. The Xenotext is experimental poetry in the truest sense of the term. Christian Bök is the author of Crystallography (1994) and Eunoia (2001), which won the Griffin Poetry Prize. He teaches at the University of Calgary in Alberta, Canada.

Reviews of Accelerator Science and Technology Coach House Books

Written by the leading experts in computational materials science, this handy reference concisely reviews the most important aspects of plasticity modeling: constitutive laws, phase transformations, texture methods, continuum approaches and damage mechanisms. As a result, it provides the knowledge needed to avoid failures in critical systems udner mechanical load. With its various application examples to micro- and macrostructure mechanics, this is an invaluable resource for mechanical engineers as well as for researchers wanting to improve on this method and extend its outreach.

Apparently There Were Complaints Springer Science & Business Media

This alphabetical reference covers the entire spectrum of the recording of sound, from Edison's experimental cylinders to contemporary high technology. The major focus is on the recorded sound industry in the US, with additional material on Canada, Europe, Australia, and New Zealand. The coverage is particularly strong on the earliest periods of recorded sound history--1877-1948, the 78 rpm era and 1949-1982, the LP era. In addition to performers and their work, entries also cover important commercial organizations, individuals who made significant technical contributions, societies and associations, sound archives and libraries, magazines, catalogs, award winners, technical topics, special and foreign terms, copyright laws, and other areas of interest. Annotation copyright by Book News, Inc., Portland, OR

Large Meteorite Impacts III Addison-Wesley

The handbook centers on detection techniques in the field of particle physics, medical imaging and related subjects. It is structured into three parts. The first one is dealing with basic ideas of particle detectors, followed by applications of these devices in high energy physics and other fields. In the last part the large field of medical imaging using similar detection techniques is described. The different chapters of the book are written by world experts in their field. Clear instructions on the detection techniques and principles in terms of relevant operation parameters for scientists and graduate students are given.Detailed tables and diagrams will make this a very useful handbook for the application of these techniques in many different fields like physics, medicine, biology and other areas of natural science.

Cryo-EM Part A: Sample Preparation and Data Collection World Scientific Publishing Company Incorporated

High energy colliding beams; What is their future? / B. Richter -- Proton-proton and proton-antiproton colliders / W. Scandale -- Electron-positron circular colliders / K. Oide -- Ion colliders / W. Fischer and J. M. Jowett -- Electron-proton and electron-Ion colliders / I. Ben-Zvi and V. Ptitsyn -- Linear colliders / A. Yamamoto and K. Yokoya -- Muon colliders / R. B. Palmer -- The photon collider / J. Gronberg -- Collider beam physics / F. Zimmermann -- Collision technologies for circular colliders / E. Levichev -- Andy Sessler: The full life of an accelerator physicist / K.-J. Kim, R. J. Budnitz and H. Winick

University of Chicago Press

This book gives a systematic account of the structure and representation theory of finite-dimensional complex Lie superalgebras of classical type and serves as a good introduction to representation theory of Lie superalgebras. Several folklore results are rigorously proved (and occasionally corrected in detail), sometimes with new proofs. Three important dualities are presented in the book, with the unifying theme of determining irreducible characters of Lie superalgebras. In order of increasing sophistication, they are Schur duality, Howe duality, and super duality. The combinatorics of symmetric functions is developed as needed in connections to Harish-Chandra homomorphism as well as irreducible characters for Lie superalgebras. Schur-Sergeev duality for the queer Lie superalgebra is presented from scratch with complete detail. Howe duality for Lie superalgebras is presented in book form for the first time. Super duality is a

new approach developed in the past few years toward understanding the Bernstein-Gelfand-Gelfand category of modules for classical Lie superalgebras. Super duality relates the representation theory of classical Lie superalgebras directly to the representation theory of classical Lie algebras and thus gives a solution to the irreducible character problem of Lie superalgebras via the Kazhdan-Lusztig polynomials of classical Lie algebras.

The Jahn-Teller Effect CUP Archive

Presents a dramatization of March's novel featuring Rhoda Penmark, who uses her strange powers and talent for evil to force others to give her what she wants.

Recent advances of research in antinutritional factors in legume seeds and oilseeds Reverse Engineering of Rubber Products

This second edition of the Apple Numerics Manual is a thorough description of the Standard Apple Numeric Environment (SANE). Includes new tips on IEEE standard arithmetic and the SANE engines built into the Apple IIGS and all Macintosh models.

Physical Education in the 21st Century John Wiley & Sons

This book is based on two keywords: Bioradical and ESR. Bioradical is a newly coined word which encompasses paramagnetic species in biological systems, such as active oxygen radicals and transition metal ions. Research on the structure and function of bioradicals has been attrac ting growing attention in the field of biological science, and comprehensive investigations from many fields are helping to understand the real features of these species. ESR spectroscopy also has interdisciplinary features in that its techniques have been applied to many fields, ranging from physics to medicine. It was our hope, therefore, that this book would help to clarify many aspects of bioradicals and that significant progress would be achieved in combining basic research from many different fields. This book arises from the First International Conference on Bioradicals Detected by ESR Spectroscopy (ICBES), which was held in Yamagata, a city in the Yamagata Prefecture of Japan, in 1994. About 300 participants from 16 different countries attended this conference, and about 170 papers were presented. This book is a collection of contributions from the conference and also contains eleven chapters selected by the editorial board, based on sugges tions from the members of the international editorial board of ICBES. The Yamagata Technopolis Foundation is developing a biomedical technology for the 21st century based on life science fused with material and physical science. Based on such a techno logy, the Foundation plans to share its fruits all over the world.

Gas Transmission and Distribution Piping Systems .. World Scientific

Crystal Plasticity Finite Element Methods Wageningen Academic Publishers

The only work to date to collect data gathered during the American and Soviet missions in an accessible and complete reference of current scientific and technical information about the Moon.