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Cats in Hats AOCS Publishing Effective models of strong and electroweak interactions are extensively applied in particle physics phenomenology, and in many instances can compete with large-scale numerical simulations of Standard Model physics. These contexts include but are not limited to providing

indications for phase transitions and the nature of elementary excitations of strong and electroweak matter. A precondition for obtaining high-precision predictions is the application of some advanced functional techniques to the effective models, where the sensitivity of the results to the accurate choice of the input parameters is under control and the insensitivity to the actual choice of ultraviolet regulators is ensured. The credibility of such attempts ultimately requires a clean renormalization procedure and an error estimation due to a necessary truncation in the resummation procedure. In this concise primer we discuss systematically and in sufficient technical depth the features of a number of approximate methods, as applied to various effective models of chiral symmetry breaking in strong interactions and the BEH-mechanism of symmetry breaking in the electroweak theory. After introducing the basics of the functional integral formulation of quantum field theories and the derivation of different variants of the equations which determine the n-point functions, the text elaborates on the formulation of the optimized perturbation theory and the large-N expansion, as applied to the solution of these underlying equations in vacuum. The optimisation aspects of the 2PI

approximation is discussed. Each of them is presented as a specific reorganisation of the weak coupling perturbation theory. The dimensional reduction of high temperature field theories is discussed from the same viewpoint. The renormalization program is described for each approach in detail and particular attention is paid to the appropriate interpretation of the notion of renormalization in the presence of the Landau singularity. Finally, results which emerge from the application of these techniques to the thermodynamics of strong and electroweak interactions are reviewed in detail.

Software for Exascale Computing - SPPEXA 2016-2019 Ocotillo Press

This book covers topics that include classification of BPLC systems, models for analyses based on TL theory, estimation of channel capacity and performance and finally application of modulation, coding and media access control techniques for boosting the performance of BPLC systems. It will be of interest to graduates and practicing engineers.

The Climate of Darkness Elsevier

Soil enzymes are one of the vital key mediators involved in nutrient recycling and the decomposition of organic matter and thereby in maintaining soil quality and fertility. This Soil Biology volume covers the various facets of soil enzymes, such as their functions, biochemical and microbiological properties and the factors affecting their activities. Enzymes in the rhizosphere, in forest soils, and in volcanic ash-derived soils are described. Soil enzymes covered include phosphohydrolases, lignocellulose-degrading enzymes, phenol oxidases, fungal oxidoreductases, keratinases, pectinases, xylanases, lipases and pectinases. Several chapters treat the soil enzymatic activities in the bioremediation of soils contaminated with pesticides and pollutants such as oil, chlorinated compounds, synthetic dyes and aromatic hydrocarbons. The role of soil enzymes as bioindicators is a further important topic addressed.

The Use of Nutrients in Crop Plants Cambridge University Press

This book explores the contrasting development options available to Beijing and Shanghai and proposes strategies for these cities based on their current and acquired capabilities, experience of other world cities, the emerging demand in the national market, and likely trends in

global trade.

Non-occupational Exposure to Mineral Fibres Cambridge University Press

The way a cell undergoes malignant transformation should meet their capacity of surviving in the microenvironment of the organ where the cancer will develop. Metabolic adaptation is for sure one of the criteria that must be accomplished, driven by metabolic plasticity that allows the adaptation of cancer cells to the availability of energy and biomass sources that will sustain cell survival and proliferation. Each human organ has a particular microenvironment which depends on several cell types and in some cases also on symbiotic microorganisms. These biological partners are constantly sharing organic

compounds and signaling molecules that will control mitogenesis, cell death and differentiation, accounting for the organ's function. Nevertheless, cancer cells are capable of taking advantage of this metabolic and signaling microenvironmental dynamics. In this book, we intend to present the different components of the microenvironment driving the metabolic fitness of cancer cells. The metabolic changes required for establishing a tumor in a given microenvironment and how these metabolic changes limit the response to drugs will generally be the major items addressed. It is important to mention not only aspects of the microenvironment that stimulate metabolic changes and that select better adapted tumor cells, but also

how this regulation of cell plasticity is made. Thus, the signaling pathways that orchestrate and are orchestrated throughout this panoply of metabolic rearrangements will also be addressed in this book. The subjects will be presented from the conceptual point of view of the cross-cancer mechanisms and also particularizing some models that can be examples and enlightening within the different areas.

Behavioural Models in Psychopharmacology Springer Science & Business Media

Nickel-Titanium alloys are smart materials exhibiting unique properties such as superelasticity and shape-memory effect. The material has been used as orthodontic wires in the dental field for over 20 years. This book is a comprehensive overview to the field of Ni-Ti Materials and

the physical, chemical and mechanical properties of this versatile alloy. In addition, complications and challenges exhibited in applications are also discussed.

Broadband Power-line Communications Systems Walter de Gruyter GmbH & Co KG

Annotation Injection moulding is one of the most commonly used processing technologies for plastics materials. Proper machine set up, part and mould design, and material selection can lead to high quality production. This review outlines common factors to check when preparing to injection mould components, so that costly mistakes can be avoided. This review examines the different types of surface defects that can be identified in plastics parts and looks at ways of solving these problems. Useful flow charts to illustrate possible ways forward are included. Case studies and a large b257 of figures make this a very useful report.

Sensors and Transducers Springer Science & Business Media

Brain aminergic pathways are organized in parallel and interacting systems, which support a range of functions, from homeostatic regulations to cognitive, and motivational processes. Despite overlapping functional influences, dopamine, serotonin, noradrenaline and histamine systems provide different contributions to these processes. The histaminergic system, long ignored as a major regulator of the sleep-wake cycle, has now been fully acknowledged also as a major coordinator of attention, learning and memory, decision making. Although histaminergic neurons project widely to the whole brain, they are functionally heterogeneous, a feature which may provide the substrate for differential regulation, in a region-specific manner, of other neurotransmitter systems. Neurochemical preclinical studies have clearly shown that

histamine interacts and modulates the release of neurotransmitters that are recognized as major modulators of cognitive processing and motivated behaviours. As a consequence, the histamine system has been proposed as a therapeutic target to treat sleep-wake disorders and cognitive dysfunctions that accompany neurodegenerative and neuroinflammatory pathologies. Last decades have witnessed an unexpected explosion of interest in brain histamine system, as new receptors have been discovered and selective ligands synthesised. Nevertheless, the complete picture of the histamine systems fine-tuning and its orchestration with other pathways remains rather elusive. This Research Topic is intended to offer an interdisciplinary forum that will improve our current understanding of the role of brain histamine and provide the

fundamentals necessary to drive innovation in clinical practice and to improve the management and treatment of neurological disorders.

Soil Enzymology Springer
The Manhattan waterfront is one of New York City's most magnificent vistas, boasting both the majestic Statue of Liberty and the busy George Washington Bridge. But Detective Mike Chapman is about to become far too well acquainted with the dangerous side of the Hudson river and its islands when he takes on his most personal case yet: the disappearance of Alex Cooper. Coop is missing - but there are so many leads and terrifying complications: scores of enemies she has made after a decade of putting criminals behind bars; a recent security breach with dangerous repercussions; and a new

intimacy in her relationship with Mike, causing the Police Commissioner himself to be wary of the methods Mike will use to get Coop back... if he can.

Philippine History Springer Nature
Moulds and the mycotoxins they produce, have a wide-ranging economic impact on animal agriculture on every continent of the globe. Mould growth robs feed nutritive value and reduces intake, which lowers efficiency. Mycotoxins, even when present at levels previously considered 'trace', have negative effects on performance and health, particularly in the context of today's more highly productive modern livestock genetics. Food-borne toxins also threaten human health through contaminated cereal and protein sources and transfer of toxins in food animal products. The Mycotoxin Blue Book focuses on the physiological effects and field occurrence of mycotoxins. Detailed information on types of moulds and mycotoxins and the conditions under which moulds flourish is included. Implications

of mycotoxin contamination of feedstuffs for all major food animal species are presented in addition to aquaculture and companion animals. Sampling and analytical issues are covered in depth; as is the topic of mycotoxins in human foods. Finally, practical means of ameliorating mycotoxin effects are addressed. It is the hope of the editor and authors that the material herein will lead to clearer recognition of mycotoxin problems and ultimately to ways of reducing their impact on food animal production. An excellent guide for nutritionists, advisors, farmers and students involved with and using animal feed. Contents: Sampling feeds for mycotoxin analysis Mycotoxins: their effects in poultry and some practical solutions Effects of mycotoxins in horses Effects of mycotoxins on domestic pet species Effects of mycotoxins on antioxidant status and immunity Mycotoxins in aquaculture Principles and applications of mycotoxin analysis Mycotoxins in the human food chain Mould growth and mycotoxin production Current concepts in

mycotoxicoses in swine Mycotoxins in forages Mycotoxin interactions Mycotoxins: metabolism, mechanisms and biochemical markers Effects of mycotoxins in ruminants Mycotoxin sequestering agents: practical tools for the neutralisation of mycotoxins Index

Neonatal Nutrition for Inflammatory Disorders and Necrotizing Enterocolitis Springer Nature

In this book Ian Sinclair provides the practical knowhow required by technician engineers, systems designers and students. The focus is firmly on understanding the technologies and their different applications, not a mathematical approach. The result is a highly readable text which provides a unique introduction to the selection and application of sensors, transducers and switches, and a grounding in the practicalities of designing with these devices. The devices covered encompass heat, light and motion, environmental sensing, sensing in industrial control, and signal-carrying and non-signal switches. Get up to speed in this key topic through this leading practical

guide Understand the range of technologies and applications before specifying Gain a working knowledge with a minimum of maths

The United States and Japan

Academic Press

As our economy shifts from recession to recovery, our current economic climate is ripe for transformation. CIOs are in a unique position to leverage technology in order to drive innovation and boost business growth. The CIO Playbook is the handy desk reference for CIOs, CEOs, CFOs, and up and coming leaders, revealing a dynamic seven-step framework (Partner - Organize - Innovate - Deliver - Support - Protect - Grow) that will guide you in making essential changes to your organization. The proven strategies, tools, and techniques in The CIO Playbook make it the ultimate "how-to" resource for creating a high-performance IT organization that delivers value-added products and services to

employees, customers, and shareholders. Author Nicholas Colisto provides solutions to the issues that concern business leaders and IT practitioners, including: How to truly partner with business peers Delivering high-quality products and services that are embraced by your user community How to ensure your team is focused on the right innovations Measuring performance and running your department like a business Ways to attract, motivate, and retain a talented team working toward a common vision Managing risks to operate effectively and protect corporate reputation Featuring online templates for each of the seven steps described in the book, The CIO Playbook can help you transform your IT department from a mere order taker to a high-performance organization that delivers extraordinary business outcomes, despite this era of turbulent economic

challenges.

Nickel-Titanium Materials

Elsevier

Jazz cats in fedoras, feisty cats in Viking horns, gourmand cats in chef's hats, Burmese cats in bonnets, and the always popular Siamese in a sombrero—no one rocks a hat quite like a cat. Featuring more than forty two-page spreads consisting of color photos alongside hilarious captions and informative text, Cats in Hats is a fun, joyful compendium of some exquisite combinations of felines and head wear. They say cats have nine lives, but no one's ever told us how many hats they have...

Polyphenols in Human Health and Disease WIT Press

This book provides a broad international perspective on the psychological trauma faced by children and adolescents exposed to major disasters, and

on the local public health response to their needs. An outstanding quality of the book is that it draws upon the experience of local researchers, clinicians, and public mental health practitioners who dedicated themselves to these children in the wake of overwhelming events. The chapters address exemplary responses to a wide variety of trauma types, including severe weather, war, industrial catastrophes, earthquakes, and terrorism. Because disasters do not recognize geographic, economic, or political boundaries, the chapters have been selected to reflect the diverse global community's attempt to respond to vulnerable children in the most challenging times. The book, thus, examines a diverse range of healthcare systems, cultural settings, mental health infrastructure, government policies, and the economic factors that have

played an important role in responses to traumatic events. The ultimate goal of this book is to stimulate future international collaborations and interventions that will promote children's mental health in the face of disaster. *Properties and Management of Soils in the Tropics* Springer Nature
What are the carcinogenic risks to the general population from environmental exposure to mineral fibers? The international contributors to this volume focus on this question, and offer the perspectives of different fields of investigation: industrial hygiene, toxicology, epidemiology, and the study of short- and long-term effects. The papers reflect the increasing concern over the potential hazard from exposure to asbestos and other fibers to individuals outside known danger areas such as industrial sites. Major emphasis is given to the problem of assessing effects of exposure to very low levels of airborne fibers and to the reliability of extrapolating risk estimates from a dose-response

based on high levels of exposure. Contents include experimental data on the carcinogenic effects of mineral fibers and their mechanism of action, fiber level measurements in the lung and their correlation with air samples, methods of determining airborne levels, epidemiological data on the hazards of non-occupational exposure, and problems of risk evaluation.
Priorities for Alleviating Soil-related Constraints to Food Production in the Tropics Int. Rice Res. Inst.
Put Theory into Practice
Scarcity of natural resources, higher costs, higher demand, and concerns about environmental pollution- under these circumstances, improving food supply worldwide with adequate quantity and quality is fundamental. Based on the author's more than forty years of experience, *The Use of Nutrients in Crop Plants*
Applied Improvisation Springer
This Nutrients Special Issue focuses on neonatal nutritional

advances for inflammatory disorders affecting infants such as necrotizing enterocolitis (NEC). Nutrition can significantly impact the development of certain diseases that afflict infants. This Special Issue aims to bring together the latest research on the role of nutrition in preventing or impacting neonatal disorders. Specifically, this Special Issue focuses on the role of breast milk or donor breast milk and the various components in milk that have been demonstrated to protect against NEC and other inflammatory diseases. This issue provides a comprehensive composite of the advances in nutritional strategies that can modulate or prevent neonatal intestinal disorders.

TM 9-2320-289-10 Operator's Manual for the M1008 Series of Trucks Hachette UK

Content.

Troubleshooting Injection

Moulding Bloomsbury Publishing Functional foods and nutraceuticals are food products that naturally offer or have been modified to offer additional health benefits beyond basic nutrition. As such products have surged in popularity in recent years, it is crucial that researchers and manufacturers understand the concepts underpinning functional foods and the opportunity they represent to improve human health, reduce healthcare costs, and support economic development worldwide. **Functional Foods and Nutraceuticals: Bioactive Components, Formulations and Innovations** presents a guide to functional foods from experienced professionals in key institutions around the world. The text provides background information on the health benefits, bioavailability, and safety measurements of functional foods and nutraceuticals.

Subsequent chapters detail the bioactive components in functional foods responsible for these health benefits, as well as the different formulations of these products and recent innovations spurred by consumer demands. Authors emphasize product development for increased marketability, taking into account safety issues associated with functional food adulteration and solutions to be found in GMP adherence. Various food preservation methods aimed at enhancing the quality and shelf life of functional food are also highlighted. **Functional Foods and Nutraceuticals: Bioactive Components, Formulations and Innovations** is the first of its kind, designed to be useful to students, teachers, nutritionists, food scientists, food technologists and public health regulators alike.

Histamine and Histamine Receptors in Health and Disease

CRC Press

Diatom biology, genomics and ecology are becoming more relevant to the human species. While there have been recent compilations of some of the applied aspects of diatoms, and the dizzying pace of taxonomic revisions, this new volume bring us up to date on their classification, biology and ecology, as well as covering the topics of genomics and applied uses. In this collection, some of the leaders in diatom research present either new information or summarize recent research efforts on a wide range of topics, including the tree of life of diatoms, their classifications, the wide habitats and ecological spectra the group exploits, as well as the beauty of their form. This volume celebrates the diversity, emerging areas of research and fascinating ecology of the diatoms bringing this group of world-renown and

emerging research leaders together. 'The Diatom World' will foster greater appreciation and research contributions on this incredibly diverse and fascinating group of organisms.