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Involvement of the Hippocampus and Medial Entorhinal Cortex in Bridging

Discontinuous Events Antonia Schonwald 2017 The medial entorhinal cortex (MEC) projects directly to the hippocampus. It is considered the major contributor of spatial information to the hippocampal place cells (1-3). However, it remains unclear to what extent MEC spatial firing is necessary for memory-guided behavior. We found that complete single or double bilateral lesions to the MEC and the hippocampus impaired rats in the delayed alternation task. Single lesioned rats partially improved their behavioral performance in delay trials across time. However, physiological analysis of CA1 cells in the MEC lesioned rats indicated less precision in firing, as well as less discrimination between left and right trials. Double lesioned rats did not present any behavioral improvement throughout trials, but in fact exhibited perseveration. These results could indicate that single lesions of either structure disrupt the function of the entorhino-hippocampal loop. Over time residual neurons of the intact structure are sufficient to compensate for the communication with the prefrontal cortex, as supported by partial behavioral recoveries. Double lesioned animals, however, are prevented from improving in memory related tasks.

Fundamental Interactions

Reliability and Statistics in Transportation and Communication Igor Kabashkin 2022-02-22 This book reports on cutting-edge theories and methods for analyzing complex systems, such as transportation and communication networks and discusses multi-disciplinary approaches to dependability problems encountered when dealing with complex systems in practice. The book presents the most noteworthy methods and results discussed at the 21st International Multidisciplinary Conference on Reliability and Statistics in Transportation and Communication (RelStat), which took place remotely from Riga, Latvia, on October 14 – 15, 2021. It spans a broad spectrum of topics, from mathematical models and design methodologies, to software engineering, data security and financial issues, as well as practical problems in technical systems, such as transportation and telecommunications, and in engineering education.

Policy Metamorphosis in China Xiaojiong Ding 2011-12-01 This book delineates the history of minban/private education in mainland China, particularly its current form. It studies the process of policy implementation in the domain of minban education, on the basis of which the Chinese central-local relationships and the contemporary model of state governance are analyzed.

Advances in Temporal Logic Howard Barringer 2013-11-11 Time is a fascinating subject and has long since captured mankind's imagination, from the ancients to modern man, both adult and child alike. It has been studied across a wide range of disciplines, from the natural sciences to philosophy and logic. Today, thirty plus years since Prior's work in laying out foundations for temporal logic, and two decades on from Pnueli's seminal work applying of temporal logic in specification and verification of computer programs, temporal logic has a strong and thriving international research community within the broad disciplines of computer science and artificial intelligence. Areas of activity include, but are certainly not restricted to: Pure Temporal Logic, e. g. temporal systems, proof theory, model

theory, expressiveness and complexity issues, algebraic properties, application of game theory; Specification and Verification, e. g. of reactive systems, of real-time components, of user interaction, of hardware systems, techniques and tools for verification, execution and prototyping methods; Temporal Databases, e. g. temporal representation, temporal querying, granularity of time, update mechanisms, active temporal data bases, hypothetical reasoning; Temporal Aspects in AI, e. g. modelling temporal phenomena, in terval temporal calculi, temporal nonmonotonicity, interaction of temporal reasoning with action/knowledge/belief logics, temporal planning; Tense and Aspect in Natural Language, e. g. models, ontologies, temporal quantifiers, connectives, prepositions, processing temporal statements; Temporal Theorem Proving, e. g. translation methods, clausal and non-clausal resolution, tableaux, automata-theoretic approaches, tools and practical systems.

The Foundations of Behavioral Economic Analysis Sanjit Dhani 2019-02-14 This first volume of The Foundations of Behavioral Economic Analysis covers the opening topic found in this definitive introduction to the subject: the behavioral economics of risk, uncertainty, and ambiguity. It is an essential guide for advanced undergraduate and postgraduate students seeking a concise and focused text on this important subject, and examines how the decision maker chooses his optimal action in the presence of risk, uncertainty, and ambiguity. This updated extract from Dhani's leading textbook allows the reader to pursue subsections of this vast and rapidly growing field and to tailor their reading to their specific interests in behavioural economics.

Measurement of the Antineutrino Double-Differential Charged-Current Quasi-Elastic Scattering Cross Section at MINERvA Cheryl E. Patrick 2017-11-15 □ This thesis represents the first double differential measurement of quasi-elastic anti-neutrino scattering in the few GeV range--a region of substantial theoretical and experimental interest as it is the kinematic region where studies of charge-parity (CP) violation in the neutrino sector most require precise understanding of the differences between anti-neutrino and neutrino scatter. This dissertation also presents total antineutrino-scintillator quasi-elastic cross sections as a function of energy, which is then compared to measurements from previous experiments. Next-generation neutrino oscillation experiments, such as DUNE and Hyper-Kamiokande, hope to measure CP violation in the lepton sector. In order to do this, they must dramatically reduce their current levels of uncertainty, particularly those due to neutrino-nucleus interaction models. As CP violation is a measure of the difference between the oscillation properties of neutrinos and antineutrinos, data about how the less-studied antineutrinos interact is especially valuable. The measurement described herewith determines the nuclear and instrumental effects that must be understood to undertake precision neutrino physics. As well as being useful to help reduce oscillation experiments' uncertainty, this data can also be used to study the prevalence of various correlation and final-state interaction effects within the nucleus. In addition to being a substantial scientific advance, this thesis also serves as an outstanding introduction to the field of experimental neutrino physics for future students.

Evaluation of Turbidity and Turbidity-related Effects on the Biota of the San

Francisco Bay-Delta Estuary Joseph M. O'Connor 1991

AI*IA 99:Advances in Artificial Intelligence Evelina Lamma 2003-06-26 This book contains the extended versions of 33 papers selected among those originally presented at the Sixth Congress of the Italian Association for Artificial Intelligence (AI*IA). The congress of the AI*IA is the most relevant Italian event in the field of Artificial Intelligence, and has been receiving much attention from many researchers and practitioners of different countries. The sixth congress was held in Bologna, 14-17 September 1999, and was organized in twelve scientific sessions and one demo session. The papers here collected report on significant work carried out in different areas of artificial intelligence, in Italy and other countries. Areas such as automated reasoning, knowledge representation, planning, and machine learning continue to be thoroughly investigated. The collection also shows a growing interest in the field of multi-agent systems, perception and robotics, and temporal reasoning. Many people contributed in different ways to the success of the congress and to this volume. First of all, the members of the program committee who efficiently handled the reviewing of the 64 papers submitted to the congress, and later on the reviewing of the 41 papers submitted for publication in this volume. They provided three reviews for each manuscript, by relying on the support of valuable additional reviewers. The members of the organizing committee, namely Rosangela Barruffi, Paolo Bellavista, Anna Ciampolini, Marco Cremonini, Enrico Denti, Marco Gavanelli, Mauro Gaspari, Michela Milano, Rebecca Montanari, Andrea Omicini, Fabrizio Riguzzi, Cesare Stefanelli, and Paolo Torroni, worked hard supporting at solving problems during and after the congress.

Spring Hippocampal Research Conference and Beyond Jochen C. Meier 2022-01-17

Exploring Electron-Neutrino-Argon Interactions Krishan V. J. Mistry 2023-01-01 This thesis explores the electron-neutrino and antineutrino cross section on argon using the MicroBooNE liquid argon time projection chamber detector. With only a handful of electron neutrino cross section measurements in the hundred MeV to GeV range to date and only one of them on argon as the target nucleus: the result from the ArgoNeUT experiment, there is a need for new, large statistics, electron-neutrino cross section measurements. The precise knowledge of the electron neutrino cross section is fundamental for tests of lepton universality, making meaningful interpretations of neutrino oscillations and beyond the Standard Model search experiments involving electron neutrinos. Moreover, the appearance of electron neutrinos in a beam of predominantly muon neutrinos is the key signature in searches for sterile neutrinos in short-baseline experiments and measurements of Charge-Parity violation in long-baseline oscillation experiments. The measurements in this thesis utilize the NuMI neutrino beamline which is highly off-axis to the MicroBooNE detector but provides a rich source of electron-neutrinos. Critical to the measurement of the cross section is a detailed understanding of the flux of neutrinos at MicroBooNE and the uncertainties associated with it. The neutrino flux prediction tools used for the on-axis NuMI experiments are described and studied in detail for their implementation in the case of MicroBooNE. These tools will form the foundation for many future measurements using the NuMI beam at MicroBooNE. With the use of argon as a target for studying neutrino interactions, the large size of the nucleus introduces nuclear effects which impact the kinematics and multiplicities of the particles produced in the initial interaction. Such effects are complicated to model and are currently an active area of research with various models and neutrino generators available. The measurements in this thesis compare the electron-neutrino argon

cross section to several neutrino generators with differing physics models. These comparisons provide important information in the modelling of neutrino interactions with nuclei such as argon. The target audience for this thesis is aimed at particle physics graduate students, particularly in the field of neutrino physics working with noble element time-projection chambers.

Australian Income Tax Legislation, 2012, Vol 2

The Taxpayers' Guide 2013 - 2014 Taxpayers Australia 2013-09-03 The one-stop resource for understanding the Australian tax system, from the experts at Taxpayers Australia The complete guide to understanding the Australian tax system, The Taxpayers' Guide 2013-2014 is packed with tax-savings strategies and helpful advice presented in a clear, easy-to-follow style that makes it essential reading for all taxpayers seeking information and tools to ensure they pay exactly what they owe...and not a cent more. Revised and updated for the 2013-2014 tax year, the book brings together almost a century of expertise from Taxpayers Australia in one comprehensive volume. Now in its 25th edition, The Taxpayers' Guide is an informative, practical resource that answers even the most complicated tax problems in a well-organized, readily accessible format. Expansive in its coverage, the book addresses income tax rates, deductions for individuals and contractors, superannuation, capital gains, investment property, planning for retirement, investments, small business issues, trusts, payroll taxes, and much more. Fully revised and updated for the 2013-2014 tax year Easy to follow and comprehensive in scope, with coverage of everything from retirement to trusts Filled with invaluable information, excellent advice, and practical strategies for understanding the tax system and maximizing rebates, The Taxpayers' Guide 2013-2014 is the all-new edition of Taxpayers Australia's trusted tax guide.

'A Senseless, Squalid War' Norman Rose 2014-07-10 The events in Palestine between the end of the Second World War in May 1945 and the declaration of the State of Israel in May 1948 ruptured Middle Eastern history and left an indelible mark on the modern world. Today, no conflict is felt to be more intractable or divisive, no dispute so fraught with passion or infused with so much hatred, despite the repeated attempts at reconciliation between Israelis and Palestinians in the six decades since Israel came into being. Yet how did it feel to witness and experience these momentous events? In 'A Senseless, Squalid War' Norman Rose uses contemporary sources - letters, songs, diaries and stories as well as journalism and official propaganda - to reveal the attitudes and experiences of the participants from all sides of the unfolding drama. 'A Senseless, Squalid War' also chronicles the political context of these crucial years. In the immediate aftermath of the European war, amidst the horrific revelations of the Holocaust and a diplomatic stalemate over the partitioning of Palestine, militant guerrilla groups sought to undermine the British presence. Jewish refugees in their thousands had been trying to enter Palestine since the early 1940s, many on the notorious 'death ships' from Eastern Europe, with tragic consequences. The massacre at Deir Yassin and the forced transfer of up to 700,000 Palestinians; the British withdrawal and the celebration of independence; the mounting tensions and the 'war of extermination and momentous massacre' - all this, and the voices of those who lived it, are recreated as never before in Norman Rose's powerful and vivid work.

Machine Learning with the Elastic Stack Rich Collier 2019-01-31 Leverage Elastic Stack's machine learning features to gain valuable insight from your data Key FeaturesCombine machine learning with the analytic capabilities of Elastic StackAnalyze large volumes of search data and gain actionable insight from themUse

external analytical tools with your Elastic Stack to improve its performance

Book Description Machine Learning with the Elastic Stack is a comprehensive overview of the embedded commercial features of anomaly detection and forecasting. The book starts with installing and setting up Elastic Stack. You will perform time series analysis on varied kinds of data, such as log files, network flows, application metrics, and financial data. As you progress through the chapters, you will deploy machine learning within the Elastic Stack for logging, security, and metrics. In the concluding chapters, you will see how machine learning jobs can be automatically distributed and managed across the Elasticsearch cluster and made resilient to failure. By the end of this book, you will understand the performance aspects of incorporating machine learning within the Elastic ecosystem and create anomaly detection jobs and view results from Kibana directly. What you will learn

Install the Elastic Stack to use machine learning features Understand how Elastic machine learning is used to detect a variety of anomaly types Apply effective anomaly detection to IT operations and security analytics Leverage the output of Elastic machine learning in custom views, dashboards, and proactive alerting Combine your created jobs to correlate anomalies of different layers of infrastructure Learn various tips and tricks to get the most out of Elastic machine learning Who this book is for If you are a data professional eager to gain insight on Elasticsearch data without having to rely on a machine learning specialist or custom development, Machine Learning with the Elastic Stack is for you. Those looking to integrate machine learning within their search and analytics applications will also find this book very useful. Prior experience with the Elastic Stack is needed to get the most out of this book.

Chronology of KSC and KSC Related Events for 1998 Elaine E. Liston 1999

Report to the President United States. Presidential Commission on the Space Shuttle Challenger Accident 1986

Multi-access Edge Computing: Software Development at the Network Edge Dario Sabella 2021-08-21 The textbook covers the main aspects of Edge Computing, from a thorough look at the technology to the standards and industry associations working in the field. The book is conceived as a textbook for graduate students but also functions as a working guide for developers, engineers, and researchers. The book aims not only at providing a comprehensive technology and standard reference overview for students, but also useful research insights and practical exercises for edge software developers and investigators in the area (and for students looking to apply their skills). A particular emphasis is given Multi-access Edge Computing (MEC) as defined in European Telecommunications Standards Institute (ETSI), in relationship with other standard organizations like 3GPP, thus in alignment with the recent industry efforts to produce harmonized standards for edge computing leveraging both ETSI ISG MEC and 3GPP specifications. Practical examples of Edge Computing implementation from industry groups, associations, companies and edge developers, complete the book and make it useful for students entering the field. The book includes exercises, examples, and quizzes throughout.

Temporal Databases: Research and Practice Opher Etzion 1998-05-13 This is an introductory text to the science of neurobiology, describing animal nervous systems, what they consist of, how they work, and how they are studied. Unlike many other neurobiology texts, considerable discussion is given to both human and non-human nervous systems. Written in an easy-to-read style, it will be useful for both biology and medical students. It provides the opportunity for self-testing at the end of each chapter, with objectives and questions. A CD-ROM entitled 'The Human Brain' (ISBN 3-540-14666-0) has been produced to accompany this text, and

can be purchased either separately or together with the book (ISBN 3-540-63778-8).

Aden Insurgency Jonathan Walker 2014-11-19 During the early 1960s the Cold War reached its climax. Britain's dwindling power in the Middle East was under siege from Arab nationalism, the Communist bloc and from American designs in the region. Aden, with its strategic military base and old Protectorate buffer zone, was soon the main battleground. The 1962 Egyptian-inspired coup in the neighbouring Kingdom of North Yemen further tightened the noose. So began a bitter and bloody insurgency war in South Arabia. British regular and special forces were soon pitted against growing and formidable insurgency forces, fighting both a war in the mountains and an urban conflict in the backstreets of Aden. Intelligence agencies vied for control of 'hearts and minds'. The British launched a clandestine war in Yemen to keep their enemies at bay. But still the situation in Aden spiralled out of control, culminating in a bloody slaughter in 1967. In that November, the British Army finally withdrew from South Arabia.

Aden Insurgency is the extraordinary story of Britain's last colonial conflict. Using a wide range of recently released archive and eye-witness accounts, the author charts the collapse of the South Arabian state. Set against a background of ruthless political ambition, these events shaped the Yemen of today.

Australian Income Tax Legislation, 2012, Vol 1

Proceedings of the 31st International Conference on High Energy Physics ICHEP 2002 S. Bentvelsen 2012-12-02 The first precision measurements on CP violation in the B system are reported. Both the BELLE and the BABAR collaboration presented, among others, results for $\sin 2\beta$ with much improved accuracy. Results from the Sudbury Neutrino Observatory, SNO, also deserve to be mentioned. The convincing evidence of solar neutrino oscillations had been presented by SNO prior to the conference; a full presentation was given at the conference. An incredibly precise measurement of the anomalous magnetic moment of the muon is reported, a fresh result from the Brookhaven National Laboratory. Apart from these distinct physics highlights, there are also the first results from the new Tevatron run and from the relativistic heavy ion collider RHIC. Theorists write of our ever better understanding of the Standard Model and of what might lie beyond. Risky as it is to highlight only a couple of exciting subjects, it is merely meant to whet the appetite for further reading.

Discursive Approaches to Language Policy Elisabeth Barakos 2016-11-02 This book brings together the fields of language policy and discourse studies from a multidisciplinary theoretical, methodological and empirical perspective. The chapters in this volume are written by international scholars active in the field of language policy and planning and discourse studies. The diverse research contexts range from education in Paraguay and Luxembourg via businesses in Wales to regional English language policies in Tajikistan. Readers are thereby invited to think critically about the mutual relationship between language policy and discourse in a range of social, political, economic and cultural spheres. Using approaches that draw on discourse-analytic, anthropological, ethnographic and critical sociolinguistic frameworks, the contributors in this collection explore and refine the 'discursive' and the 'critical' aspects of language policy as a multilayered, fluid, ideological, discursive and social process that can operate as a tool of social change as well as reinforcing established power structures and inequalities.

Space Shuttle Avionics System John F. Hanaway 1989

Australian Income Tax Legislation 2011: Income Tax Assessment Act 1997 (div 719 1-end) Australia 2011 Provides a comprehensive consolidation of Australian income

tax and related legislation, updated and consolidated for all amendments to 1 January 2011.

Nutrition and Functional Foods in Boosting Digestion, Metabolism and Immune Health Debasis Bagchi 2021-12-01 Nutrition and Functional Foods in Boosting Digestion, Metabolism and Immune Health explores the role of appropriate nutrition and digestive enzymes in healthy digestion. The book addresses salient gastrointestinal features involved in healthy digestion pathophysiology, including coverage of the enzyme-microbiome connection and linkage, features of indigestion problems, roles of traditional and conventional ethnic foods, structurally diverse digestive enzymes, drugs, nutraceuticals and novel digestive formulations. In addition, the book addresses technological breakthroughs that have led to recent, novel discoveries and outlines nutritional guidelines and recommendations to achieve healthy digestion. This book is a useful resource for nutrition researchers, nutritionists, physicians working in the field of digestive health, pharmacists, food experts, health professionals, nurses and general practitioners, public health officials and those teaching or studying related fields. Provides coverage of digestion, human physiology and the enzyme-microbiome linkage Covers indigestion problems, including gut dysbiosis and its role in chronic disease Addresses traditional and conventional ethnic foods Discusses digestive enzymes, as well as digestive drugs, enzymes, nutraceuticals and novel formulations

Synapse Construction in C. Elegans Kerri Ann Spilker 2011 Specification and assembly of synapses is a highly coordinated and regulated process. Knowledge of the position and connectivity of all C. elegans neurons makes it a highly useful organism for studying the underlying mechanisms that control synapse formation. Using cell-specific promoters and fluorescently-labeled synaptic vesicle proteins, we are able to monitor synapse formation in subsets of C. elegans neurons. Close observation of synapse formation in a single posterior motorneuron (DA9) led to the identification of a mutation in the alternative splicing regulator mbl-1 that changes the synaptic pattern. The cholinergic motorneuron DA9 is required for backwards locomotion and forms ~25 synapses onto both inhibitory neurons and body wall muscles in the dorsal nerve cord (DNC) of the worm. We found that the 10 most distal synapses of DA9 fail to form in mbl-1 mutants, visualized with the synaptic vesicle-associated protein RAB-3 and the active zone proteins SYD-2/liprin- α and UNC-10/Rim. In addition, some RAB-3 mis-localizes to the dendrite of DA9 and animals have a backwards locomotion defect consistent with a loss of synapses onto dorsal body wall muscles. mbl-1 is a member of the conserved MBNL (Muscleblind like) family of CCCH zinc-finger RNA binding proteins that regulate alternative splicing of target genes by directly binding to target mRNA. In the human disease myotonic dystrophy type 1 (DM1), a progressive muscular dystrophy, sequestration of MBNL proteins in nuclear foci leads to altered splicing of downstream genes. Mis-splicing of several genes is responsible for the muscular and cardiac symptoms present in individuals with DM1. Most work on the MBNL proteins has focused on their role in muscle morphogenesis and maintenance. However, C. elegans mbl-1 is expressed in a subset of motorneurons including DA9 and is required cell autonomously in these neurons to regulate proper synapse formation. Post-synaptic and muscle markers were unaffected in mbl-1 mutant animals. Thus, our work demonstrates that mbl-1 also functions in neurons to regulate synapse formation. In a separate set of experiments, we identified a new mutation in the coding region of the touch cell-specific beta-tubulin, mec-7(wy116) that causes a defect in synapse formation in the mechanosensory neuron PLM. Previous studies have shown that mec-7 is expressed exclusively in the six touch neurons of C. elegans and is

required for sensing light touch. Our mec-7 mutation leads to a loss of synaptic vesicle accumulation at PLM synaptic sites in the ventral nerve cord and synaptic vesicles are visible at ectopic locations along the lateral axon of PLM. Localization of the synaptic proteins VAMP and GIT-1 is also defective in our mutant, but neuronal morphology is wild-type. mec-7(wy116) is mildly Mec, but other alleles of mec-7 (e1506, e1527) do not phenocopy the synaptic vesicle localization defect. mec-7(wy116) is a missense mutation that alters a highly conserved Thr at position 409 to Ile. Crystal structures of tubulin indicate that this residue is on the face of tubulin that interacts with kinesin motor. Because we see synaptic vesicles along the lateral axon of PLM, we believe that kinesin-mediated vesicle transport is less efficient in mec-7(wy116) mutants.

Office Gynecology David Chelmos 2019-01-31 This case-based guide covers 100 gynecologic problems commonly encountered in office practice settings, from the simple to the complex. It encourages evidence-based care and incorporates up-to-date guidance on evaluation and management in office practice. Clinical problems are discussed in a clear, case-based format. The book integrates current guidelines and recommendations, supplemented with carefully-researched and vetted expert opinion for situations for which no guidelines exist. Each gynecologic problem is assessed through a brief case presentation followed by an in-depth discussion with visual aids. Question and answer sections feature teaching points. Cases and discussions are detailed enough to guide practice, yet remain focused and concise, with each case designed to be read in the time available when seeing a patient in clinical practice. An invaluable reference guide for gynecologists, family physicians, internal medicine providers, and other women's health care providers who offer office-based gynecologic care.

XX International Symposium on Lepton and Photon Interactions at High Energies Juliet Lee-Franzini 2002 This important book covers topics that are of major interest to the high energy physics community, including the most recent results from flavour factories, dark matter and neutrino physics. In addition, it considers future high energy machines.

Australian Master Tax Guide 2011 CCH Australia, Limited 2011-01-05

The Expression of Predicative Possession Lidia Mazzitelli 2015-03-30 This book discusses the constructions used in Belarusian and Lithuanian to express predicative Possession. The work is written within a typological frame: the Belarusian and Lithuanian constructions are analyzed in the light of the typology of the possessive predicative constructions proposed by Heine (1997).

Internet of Unmanned Things (IoUT) and Mission-based Networking Chaker Abdelaziz Kerrache 2023-08-01 This book discusses the potential of the Internet of Unmanned Things (IoUT), which is considered a promising paradigm resulting in numerous applications including shipment of goods, home package delivery, crop monitoring, agricultural surveillance, and rescue operations. The authors discuss how IoUT nodes collaborate with each other in ad hoc manner through a Line-of-Sight (LoS) link to exchange data packets. Also discussed is how Unmanned Aerial Vehicles (UAVs) can communicate with fixed ground stations, with an air traffic controller, or through a Non-Line-of-Sight (NLoS) link with a satellite-aided controller, generally based on preloaded missions. The authors go on to cover how to tackle issues that arise with dissimilar communication technologies. They cover how various problems can appear in inter-UAV and UAV-to-X communications including energy management, lack of security and the unreliability of wireless communication links, and handover from LoS to NLoS, and vice versa. In this book, the editors invited front-line researchers and authors to submit research

exploring emerging technologies for IoUT and mission-based networking and how to overcome challenges.

Multi-Access Edge Computing in Action Dario Sabella 2019-09-20 This book provides a complete and strategic overview of Multi-Access Edge Computing (MEC). It covers network and technology aspects, describes the market scenarios from the different stakeholders' point of view, and analyzes deployment aspects and actions to engage the ecosystem. MEC exists in and supports a highly complex "5G world" in which technologists and non-technology decision makers must act in concert and do so within a large interconnected ecosystem of which MEC is just one, albeit an important, part. Divided into three sections, with several chapters in each, the book addresses these three key aspects: technology, markets, and ecosystems.

Medical Response to Terrorism Daniel C. Keyes 2005 This comprehensive reference provides all the information emergency departments and personnel need to prepare for and respond to terrorist events. The first section covers all agents potentially used in terrorist attacks—chemical, biologic, toxicologic, nuclear, and explosive—in a systematic format that includes background, triage, decontamination, signs and symptoms, medical management, personnel protection, and guidelines for notifying public health networks. Algorithms show when to suspect and how to recognize exposure and detail signs and symptoms and management protocols. The second section focuses on all-hazards preparedness for hospitals, communities, emergency medical services, and the media, and includes an important chapter on simulation of disasters.

Fundamental Interactions A. Astbury 2006 This proceedings volume contains the latest developments in particle physics in collider experiments. The contributions cover new results such as the production of quark-gluon plasma in the heavy-ion collider, the new techniques for precision measurement at low energies, and the status of neutrino physics at various laboratories including the new facilities that are at the planning stage. Sample Chapter(s). Chapter 1: Making Precision Measurements at Hadron Colliders: Two Lectures (1,408 KB). Contents: Making Precision Measurements at Hadron Colliders: Two Lectures (H J Frisch); Evidence for a Quark-Gluon Plasma at RHC (J Harris); Neutrino Physics: A Selective Overview (S Oser); Low-Energy Tests of the Standard Model (M Pospelov); Leptonic B Decays (M-C Chang); Cosmic Neutrinos Beyond the Standard Model (U Harbach); Proton Structure from HERA (K Nagano); New Phenomena Searches at CDF (A Soha); Electroweak Results at LEP2 (P Spagnolo); and other papers. Readership: Graduate students, academics and researchers in particle and nuclear physics."

The Taxpayers Guide 2014-2015 Taxpayers Australia Inc 2014-09-08 Answer your questions and maximise returns with this easy-to-follow tax guide The Taxpayers Guide 2014 – 2015: 26th Edition is the complete guide to understanding the Australian tax system. Packed with tax-saving strategies and helpful advice, this clear, easy-to-follow guide is essential reading for taxpayers wanting to pay what they owe, but not a cent more. You'll find invaluable information, excellent advice and practical strategies for maximising returns, fully revised and updated for the 2014 – 2015 tax year. With handy reference tools like tax tables, rebates and offsets at your fingertips, you'll be able to solve both complex and everyday tax problems quickly and easily. This book brings together almost a century of expertise from Taxpayers Australia in one comprehensive volume. Taxpayers Australia is a not-for-profit educational organisation dedicated to educating taxpayers on issues relating to tax and superannuation. This guide is the organisation's one-stop resource for understanding the tax system, providing plain-English guidance toward saving money and avoiding common traps.

Comprehensively indexed and organised for easy navigation, the book provides the answers and insight you need in order to: Understand income tax rates and deductions for individuals and contractors Simplify superannuation and planning for retirement Decipher capital gains, investments and trusts Solve small business issues and straighten out payroll taxes Australia's complex tax system presents many opportunities to miss out on savings. This comprehensive tax resource clarifies complicated guidelines and laws to help you sort out what you really owe. If you're tired of overpaying but wary of questionable advice, look to one of Australia's most trusted tax guides—The Taxpayers Guide 2014 – 2015.

From the Revolution to the Maquiladoras Jennifer Bickham Mendez 2005-08-17 From the Revolution to the Maquiladoras is a major contribution to the study of globalization, labor, and women's movements. Jennifer Bickham Mendez presents a detailed ethnographic account of the Nicaraguan Working and Unemployed Women's Movement, "María Elena Cuadra" (mec), which emerged as an autonomous organization in 1994. Most of its efforts revolve around organizing women workers in Nicaragua's free trade zones and working to improve conditions in maquiladora factories. Mendez examines the structural and cultural elements of mec in order to demonstrate how globalization affects grassroots advocacy for social and economic justice. She argues that globalization has created opportunities for new forms of organizing among those local populations that suffer its effects and that mec, which has forged vital links with transnational feminist and labor groups, exemplifies the possibilities—and pitfalls—of this new type of organizing. Mendez draws on interviews with leaders and program participants, including maquiladora workers; her participant observation while she worked as a volunteer within the organization; and analysis of the public statements, speeches, and texts written by mec members. She provides a sense of the day-to-day operations of the group as well as its strategies. By exploring the tension between mec and transnational feminist, labor, and solidarity networks, she illustrates how mec women's outlooks are shaped by both their revolutionary roots within the Sandinista regime and their exposure to global discourses of human rights and citizenship. The complexities of the women's labor movement analyzed in From the Revolution to the Maquiladoras speak to social and economic justice movements in the many locales around the world.

The Methodist Unification Morris L. Davis 2008 In the early part of the twentieth century, Methodists were seen by many Americans as the most powerful Christian group in the country. Ulysses S. Grant is rumored to have said that during his presidency there were three major political parties in the U.S., if you counted the Methodists. The Methodist Unification focuses on the efforts among the Southern and Northern Methodist churches to create a unified national Methodist church, and how their plan for unification came to institutionalize racism and segregation in unprecedented ways. How did these Methodists conceive of what they had just formed as "united" when members in the church body were racially divided? Moving the history of racial segregation among Christians beyond a simplistic narrative of racism, Morris L. Davis shows that Methodists in the early twentieth century—including high-profile African American clergy—were very much against racial equality, believing that mixing the races would lead to interracial marriages and threaten the social order of American society. The Methodist Unification illuminates the religious culture of Methodism, Methodists' self-identification as the primary carriers of "American Christian Civilization," and their influence on the crystallization of whiteness during the Jim Crow Era as a legal category and cultural symbol.

16th Conference on Flavor Physics and CP Violation Anjan Giri 2019-11-13

Presenting the proceedings of FPCP 2018, this book reviews the status quo of flavor physics and discusses the latest findings in this exciting area. Flavor physics has been instrumental in the formulation and understanding of the standard model, and it is possible that the direction of new physics will be significantly influenced by flavor sector, also known as the intensity frontier, making it possible to indirectly test the existence of new physics up to a very high scale,

beyond that of the energy frontier scale accessible at the LHC. The book is intended for academics around the globe involved in particle physics research, professionals associated with the related technologies and those who are interested in learning about the future of physics and its prospects and directions.

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