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In antiquity and the Middle Ages, memory was a craft, and certain actions and tools were thought to be necessary for its creation and recollection. Until now, however, many of the most important visual and textual sources on the topic have remained untranslated or otherwise difficult to consult. Mary Carruthers and Jan M. Ziolkowski bring together the texts and visual images from the twelfth through the fifteenth centuries that are central to an understanding of memory and memory technique. These sources are now made available for a wider audience of students of medieval and early modern history and culture and readers with an interest in memory, mnemonics, and the synergy of text and image. The art of memory was most importantly associated in the Middle Ages with composition, and those who practiced the craft used it to make new prayers, sermons, pictures, and music. The mixing of visual and verbal media was commonplace throughout medieval cultures: pictures contained visual puns, words were often verbal paintings, and both were used equally as tools for making thoughts. The ability to create pictures in one's own mind was essential to medieval cognitive technique and imagination, and the intensely pictorial and affective qualities of medieval art and literature were generative, creative devices in themselves.

A study in historical anthropology, this work focusses on the world historical incorporation of Laos into a colonial capitalist system of surplus accumulation. In so doing, new light is brought to bear upon the non-rebellious and, especially, rebellious responses of the majority (Lao) and minority (montagnard) population of that country, at least as determined by a scrutiny of largely archival-based sources. The approach taken is to combine a general world system analysis with a concern for the non-economic, moral and ideological form; of colonial and "feudal" domination.

Originally published in 1997, Medieval Liturgy is a unique and interesting collection of nine essays that explores medieval liturgy from three distinct perspectives: historical, liturgical, and theological. The book includes contributions from eminent scholars of the time and discusses the development of 9th to 11th century ordines, the meaning of the Mass in the 12th and 13th centuries, medieval preaching, ordination practices, popular penance practices, marriage rites, the role of music in Eucharistic liturgy, and the relationship between liturgical architectural space and theology.

This multidisciplinary book provides up-to-date information on clinical approaches that combine stem or progenitor cells, biomaterials and scaffolds, growth factors, and other bioactive agents in order to offer improved treatment of urologic disorders including lower urinary tract dysfunction, urinary incontinence, neurogenic bladder, and erectile dysfunction. In providing clinicians and researchers with a broad perspective on the development of regenerative medicine technologies, it will assist in the dissemination of both regenerative medicine principles and a variety of exciting therapeutic options. After an opening section addressing current developments and future perspectives in tissue engineering and regenerative medicine, fundamentals such as cell technologies, biomaterials, bioreactors, bioprinting, and decellularization are covered in detail. The remainder of the book is devoted to the description and evaluation of a range of cell and tissue applications, with individual chapters focusing on the kidney, bladder, urethra, urethral sphincter, and penis and testis.

Since 2007, the biennial International Conferences on Dynamics in Logistics (LDIC) offers researchers and practitioners from logistics, operations research, production, industrial and electrical engineering as well as from computer science an opportunity to meet and to discuss the latest developments in this particular research domain. From February 12th to 14th 2020 for the seventh time, LDIC 2020 is held in Bremen, Germany. Similar to its six predecessors, the Bremen Research Cluster for Dynamics in Logistics (LogDynamics) organizes this conference. The spectrum of topics reaches from the dynamic modeling, planning and control of processes over supply chain management and maritime logistics to innovative technologies and robotic applications for cyber-physical production and logistics systems. LDIC 2020 provides a forum for the discussion of advances in that matter. The conference program consists of three invited keynote speeches and 51 papers selected by a severe double-blind reviewing process. Within these proceedings all the papers are published. By this, the proceedings give an interdisciplinary outline on the state of the art of dynamics in logistics as well as identify challenges and solutions for logistics today and tomorrow.

Stroke is a leading cause of death and disability throughout the world. About one in three symptomatic strokes are due to disease of small perforating arteries; however, most effective interventions are targeted at disease of large arteries. The underlying mechanisms and treatment of small vessel disease remain poorly understood. Microbleeds have emerged as a critical imaging marker of small vessel disease, being found in all types of stroke. With increasing evidence that microbleeds are caused by hypertensive arteriopathy and cerebral amyloid angiopathy, they are likely to play a strong future role in increasing our understanding of the causes of small vessel disease and the potential link between cerebrovascular disease and neurodegeneration. Cerebral Microbleeds summarizes our current knowledge, bringing together expert research from global authorities in the field. This authoritative and systematic text will be of interest to all clinical researchers and physicians in the fields of stroke and cognitive impairment.

Rapid expansion of research on the development of novel food processes in the past decade has resulted in novel processes drawn from fields outside the traditional parameters of food processing. Providing a wealth of new knowledge, Novel Food Processing: Effects on Rheological and Functional Properties covers structural and functional changes at the micro level, and their implications at the macro level, in food exposed to new and emerging technologies. Contributions from an international panel with academic and professional credentials form the backbone of this work. They focus on the functional, rheological, and micro-structural changes that occur in foods when using emerging technologies such as high pressure processing, Ohmic heating, pulse electric fields, and ultraviolet radiation. The book examines new and innovative applications and presents the impact of these research findings on the nutritional aspects of protein and carbohydrate containing foods. It also considers the synergic effects of protein-starch components. Each chapter provides an in-depth analysis of a novel technology and its effect on food structure and function. New directions in food processing will continue to be influenced by diverse fields and used to respond to consumer concerns about food safety, quality, sensory attributes, and nutrition. Combining coverage of technological applications

with the chemistry of food and biomaterials, this book illustrates in a very clear and concise fashion the structure-functionality relationship and how it is affected by newly developed and increasingly popular processing technologies.
This book, written by a leading panel of experts in the field of neurosciences, provides a comprehensive overview of the pathology of neurodegenerative diseases as well as the preventive measures. Prevention is important due to the lack of early diagnostic markers and the limitations/ problems of treating neurodegenerative diseases
An overview of the context, thought, writings and legacy of John Scottus Eriugena, the most important philosopher and theologian in the Latin West from the death of Boethius until the thirteenth century.
Distributed and Cloud Computing: From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with lecture slides and more available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing Includes case studies from the leading distributed computing vendors: Amazon, Microsoft, Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online
This textbook for nursing assistants will prepare students not only to function in the traditional nursing assistant role in nursing homes, hospitals, and home health, but also will prepare students to advance their careers. A nursing assistant student who uses this text will have a firm foundation by which to transition to an LPN and ultimately an RN role. The text offers a compelling art program, a direct, conversational writing style, and an emphasis on professionalism and humanism. A back-of-book CD-ROM includes an audio glossary.
Raman imaging has long been used to probe the chemical nature of a sample, providing information on molecular orientation, symmetry and structure with sub-micron spatial resolution. Recent technical developments have pushed the limits of micro-Raman microscopy, enabling the acquisition of Raman spectra with unprecedented speed, and opening a pathway to fast chemical imaging for many applications from material science and semiconductors to pharmaceutical drug development and cell biology, and even art and forensic science. The promise of tip-enhanced raman spectroscopy (TERS) and near-field techniques is pushing the envelope even further by breaking the limit of diffraction and enabling nano-Raman microscopy.
The first Digital Enterprise Technology (DET) International Conference was held in Durham, UK in 2002 and the second DET Conference in Seattle, USA in 2004. Sponsored by CIRP (College International pour la Recherche en Productique), the third DET Conference took place in Setúbal, Portugal in 2006. Digital Enterprise Technology: Perspectives and Future Challenges is an edited volume based on this conference. Topics include: distributed and collaborative design, process modeling and process planning, advanced factory equipment and layout design and modeling, physical-to-digital environment integrators, enterprise integration technologies, and entrepreneurship in DET.
AutophagyCRC Press
The only book dedicated to this important area of urology, Ureteric Stenting comprehensively reviews the entire topic, providing highly specialized advice to enable outstanding clinical management of patients. All aspects of ureteric stenting are covered, from basic to complex, giving urologists, nephrologists and trainees an authoritative and up-to-date guide on best clinical practice.
Chart Number One is essential to correct and accurate use of nautical charts. More than a chart, it is a book that defines the symbols, abbreviations and terms used on charts. It also provides important information about buoys, light visibility (range) and aids to navigation. This new and improved edition from Paradise Cay is a complete and accurate high quality reproduction of information provided by NOAA and NIMA.
Starting in the early 1970s, a type of programmed cell death called apoptosis began to receive attention. Over the next three decades, research in this area continued at an accelerated rate. In the early 1990s, a second type of programmed cell death, autophagy, came into focus. Autophagy has been studied in mammalian cells for many years. The recen
Our intention in this collection is to provide, largely through original writings, an ex tended account of pi from the dawn of mathematical time to the present. The story of pi reflects the most seminal, the most serious, and sometimes the most whimsical aspects of mathematics. A surprising amount of the most important mathematics and a signifi cant number of the most important mathematicians have contributed to its unfolding directly or otherwise. Pi is one of the few mathematical concepts whose mention evokes a response of recog nition and interest in those not concerned professionally with the subject. It has been a part of human culture and the educated imagination for more than twenty-five hundred years. The computation of pi is virtually the only topic from the most ancient stratum of mathematics that is still of serious interest to modern mathematical research. To pursue this topic as it developed throughout the millennia is to follow a thread through the history of mathematics that winds through geometry, analysis and special functions, numerical analysis, algebra, and number theory. It offers a subject that provides mathe maticians with examples of many current mathematical techniques as weIl as a palpable sense of their historical development. Why a Source Book? Few books serve wider potential audiences than does a source book. To our knowledge, there is at present no easy access to the bulk of the material we have collected.
It can be seen that the insects are the still attracting most research and researchers. However, an increasing interest is emerging to study new invertebrate groups, especially those where the genome is known. Even though Drosophila has been and still is an excellent model for immune studies, it is now clear that there are great differences between immune responses in Drosophila and that of several other invertebrates, which indeed calls for more research on other invertebrates
This Special Issue of Sustainability on "Partnerships for the Sustainable Development Goals (SDGs)" brings together a collection of articles

that explore a diverse range of issues and challenges faced by partnership arrangements that seek to support the achievement of the SDGs and the United Nations 2030 Agenda for Sustainable Development. As well as encompassing a diverse range of collaborative forms and themes, and involving a variety of stakeholders, these collaborative initiatives are all notably shaped by the dynamics of the particular contexts in which they operate. These contexts include individual, organizational, sectoral, spatial, and geographical settings. The impact of the COVID-19 pandemic on partnering for the SDGs is also apparent. The interplay between these elements offers a useful global-local context for further inquiry and reflection on how deeper and more meaningful collaborative relationships might be developed to achieve the SDG targets and beyond

An interdisciplinary framework for managing sustainable agrifood supply chains Supply Chain Management for Sustainable Food Networks provides an up-to-date and interdisciplinary framework for designing and operating sustainable supply chains for agri-food products. Focus is given to decision-making procedures and methodologies enabling policy-makers, managers and practitioners to design and manage effectively sustainable agrifood supply chain networks. Authored by high profile researchers with global expertise in designing and operating sustainable supply chains in the agri-food industry, this book: Features the entire hierarchical decision-making process for managing sustainable agrifood supply chains. Covers knowledge-based farming, management of agricultural wastes, sustainability, green supply chain network design, safety, security and traceability, IT in agrifood supply chains, carbon footprint management, quality management, risk management and policy- making. Explores green supply chain management, sustainable knowledge-based farming, corporate social responsibility, environmental management and emerging trends in agri-food retail supply chain operations. Examines sustainable practices that are unique for agriculture as well as practices that already have been implemented in other industrial sectors such as green logistics and Corporate Social Responsibility (CSR). Supply Chain Management for Sustainable Food Networks provides a useful resource for researchers, practitioners, policy-makers, regulators and C-level executives that deal with strategic decision-making. Post-graduate students in the field of agriculture sciences, engineering, operations management, logistics and supply chain management will also benefit from this book.

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Advances in Renewable Energies Offshore is a collection of the papers presented at the 3rd International Conference on Renewable Energies Offshore (RENEW 2018) held in Lisbon, Portugal, on 8-10 October 2018. The 104 contributions were written by a diverse international group of authors and have been reviewed by an International Scientific Committee. The book is organized in the following main subject areas: - Modelling tidal currents - Modelling waves - Tidal energy devices (design, applications and experiments) - Tidal energy arrays - Wave energy devices (point absorber, multibody, applications, control, experiments, CFD, coastal OWC, OWC and turbines) - Wave energy arrays - Wind energy devices - Wind energy arrays - Maintenance and reliability - Combined platforms - Moorings, and - Flexible materials Advances in Renewable Energies Offshore collects recent developments in these fields, and will be of interest to academics and professionals involved in the above mentioned areas.

Canadian Maternity and Pediatric Nursing prepares your students for safe and effective maternity and pediatric nursing practice. The content provides the student with essential information to care for women and their families, to assist them to make the right choices safely, intelligently, and with confidence.

Starch is both a major component of plant foods and an important ingredient for the food industry. Starch in food reviews starch structure and functionality and the growing range of starch ingredients used to improve the nutritional and sensory quality of food. Part one illustrates how plant starch can be analysed and modified, with chapters on plant starch synthesis, starch bioengineering and starch-acting enzymes. Part two examines the sources of starch, from wheat and potato to rice, corn and tropical supplies. The third part of the book looks at starch as an ingredient and how it is used in the food industry. There are chapters on modified starches and the stability of frozen foods, starch-lipid interactions and starch-based microencapsulation. Part four covers starch as a functional food, investigating the impact of starch on physical and mental performance, detecting nutritional starch fractions and analysing starch digestion. Starch in food is a standard reference book for those working in the food industry. Reviews starch structure and functionality Extensive coverage of the growing range of starch ingredients Examines how starch ingredients are used to improve the nutritional and sensory quality of food

This package contains A Visual Guide to Anesthesia Procedures, A Visual Guide to Transesophageal Echocardiography,A Visual Guide to Regional Anesthesia, and A Visual Guide to Crisis Management. Each manual visually demonstrates common procedures, guidelines, or algorithms and provides simple, effective direction at the point of care. Pocket sized, spiral-bound, and laminated, each manual was created to be carried and used on the floor and in the operating room.

Tremendous innovations in electronics and photonics over the past few decades have resulted in the downsizing of transistors in integrated circuits, which are now approaching atomic scales. This will soon result in the creation of a growing knowledge gap between the underlying technology and state-of-the-art electronic device modeling and simulations. This book bridges the gap by presenting cutting-edge research in the computational analysis and mathematical modeling of graphene nanostructures as well as the recent progress on graphene transistors for nanoscale circuits. It inspires and educates fellow circuit designers and students in the field of emerging low-power and high-performance circuit designs based on graphene. While most of the books focus on the synthesis, fabrication, and characterization of graphene, this book shines a light on graphene models and their circuit simulations and applications in photonics. It will serve as a textbook for graduate-level courses in nanoscale electronics and photonics design and appeal to anyone involved in electrical engineering, applied physics, materials science, or nanotechnology research.

A multidisciplinary index covering the journal literature of the arts and humanities. It fully covers 1,144 of the world's leading arts and humanities journals, and it indexes individually selected, relevant items from over 6,800 major science and social science journals.