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Philosophy manual: a South-South perspective Springer Science & Business Media
Over the past 30 years, as both forensic pathology and neuropathology have grown in sophistication, the two specialties have forged a heightened level of interaction. Reflecting the vast increase in knowledge and scientific progress in the past two decades, *Forensic Neuropathology, Second Edition* examines the new developments that have arisen since

Atomic Layer Deposition for Semiconductors SIAM

This book provides an overview of the nonclinical testing strategies that are used to assess and de-risk the genotoxicity and carcinogenicity properties of human pharmaceuticals. It includes a review of relevant ICH guidelines, numerous case studies where follow-up studies were conducted to further investigate positive findings, and practical considerations for the use of alternative and emerging tests. With contributions from recognized experts in the pharmaceutical industry and health authorities, this volume presents a balanced view on the interpretation and application of genotoxicity and carcinogenicity regulatory guidances.

Genotoxicity and Carcinogenicity Testing of Pharmaceuticals is a valuable resource for scientists, regulators, and consultants that are engaged in the conduct, reporting, and review of nonclinical studies. This book will also help academicians better understand and appreciate the complexity of the regulations and

breadth of toxicology research that are necessary to support the development and marketing of new drugs.

Medical Cell Biology CRC Press

This open access book provides a readable narrative of the bubbles and the banking crisis Japan experienced during the two decades between the late 1980s and the early 2000s. Japan, which was a leading competitor in the world's manufacturing sector, tried to transform itself into an economy with domestic demand-led mature growth, but the ensuing bubbles and crisis instead made the country suffer from chronic deflation and stagnation. The book analyses why the Japanese authorities could not avoid making choices that led to this outcome. The chapters are based on the lectures to regulators from emerging economies delivered at the Global Financial Partnership Center of the Financial

Services Agency of Japan. Lifelines Springer
 This open access book describes marked advances in imaging technology that have enabled the visualization of phenomena in ways formerly believed to be completely impossible. These technologies have made major contributions to the elucidation of the pathology of diseases as well as to their diagnosis and therapy. The volume presents various studies from molecular imaging to clinical imaging. It also focuses on innovative, creative, advanced research that gives full play to imaging technology in the broad sense, while exploring cross-disciplinary areas in which individual research fields interact and pursuing the development of new techniques where they fuse together. The book is separated into three parts, the first of which addresses the topic of visualizing and controlling molecules for life. The second part is devoted to imaging of disease mechanisms, while the final part comprises studies on the application of imaging technologies to diagnosis and therapy. The book contains the proceedings of the 12th Uehara International Symposium 2017, "Make Life Visible" sponsored by the Uehara

Memorial Foundation and held from June 12 to 14, 2017. It is written by leading scientists in the field and is an open access publication under a CC BY 4.0 license. Laboratory Techniques in Thrombosis — a Manual OUP Oxford
 Without proper hydraulic fill and suitable specialised equipment, many major infrastructure projects such as ports, airports, roads, industrial or housing projects could not be realised. Yet comprehensive information about hydraulic fill is difficult to find. This thoroughly researched book, written by noted experts, takes the reader step-by-step through the complex development of a hydraulic fill project. Up-to-date and in-depth, this manual will enable the client and his consultant to understand and properly plan a reclamation project. It provides adequate guidelines for design and quality control and allows the contractor to work within known and generally accepted guidelines and reasonable specifications. The ultimate goal is to create better-designed, more adequately specified and less costly hydraulic fill projects. The Hydraulic Fill Manual covers a range of topics such as: • The development cycle of a hydraulic fill project • How technical data are acquired and applied • The construction methods applicable to a wide variety of equipment and soil conditions, the capabilities of dredging equipment and the techniques of soil improvement • How to assess the potentials of a borrow pit • Essential environment assessment issues •

The design of the hydraulic fill mass, including the boundary conditions for the design, effects of the design on its surroundings, the strength and stiffness of the fill mass, density, sensitivity to liquefaction, design considerations for special fill material such as silts, clays and carbonate sands, problematic subsoils and natural hazards • Quality control and monitoring of the fill mass and its behaviour after construction. This manual is of particular interest to clients, consultants, planning and consenting authorities, environmental advisors, contractors and civil, geotechnical, hydraulic and coastal engineers involved in dredging and land reclamation projects. Hydraulic Fill Manual Springer
 Containing chapters by some of the world's leading experts and scholars on the subject, this book provides a broad context for intercultural competence. Including the latest research on intercultural models and theories, it presents guidance on assessing intercultural competence through the exploration of key assessment principles. Handbook of Composites CRC Press
 Offering thorough coverage of atomic layer deposition (ALD), this book moves from basic chemistry of ALD and modeling of processes to examine ALD in memory, logic devices and machines. Reviews history, operating principles and ALD

processes for each device.
American Psychiatric Association Practice Guidelines SAGE
"This book, designed for policymakers, academics and researchers, and SEZ program practitioners, provides the first systematic and comprehensive analysis of SEZ programs in Sub-Saharan Africa. It is the result of detailed surveys and case studies conducted during 2009 in ten developing countries, including six in Sub-Saharan Africa. The book provides quantitative evidence of the performance of SEZs, and of the factors which contribute to that performance, highlighting the critical importance not just of the SEZ itself but of the wider national investment climate in which it functions. It also provides a comprehensive guide to the key policy questions that confront governments establishing SEZ programs, including: if and when to launch an SEZ program, what form of SEZ is most appropriate, and how to go about implementing it. Among the most important findings from the study that is stressed in the book is the shift from traditional enclave models of zones to SEZs that are integrated ? with

national trade and industrial strategies, with core trade and social infrastructure, with domestic suppliers, and with local labor markets. Although the book focuses primarily on the experience of Sub-Saharan Africa, its lessons will be applicable to developing countries around the world."
Embedded System Design
World Bank Publications
The first edition of this manual appeared in 1992 and was entitled ECAT Assay Procedures. It was the result of a unique cooperation between experts brought together by the European Concerted Action on Thrombosis and Disabilities (ECAT). The Concerted Action was at that time under the auspices of the Commission of the European Union. The second edition, like the first edition, deals with diagnostic tests within the field of thrombosis. However, the second edition has a broader scope because it is no longer limited by the frontiers of ECAT. Experts all over the world, in and outside ECAT, have contributed to this edition. The editors are very grateful for their contributions. The need for a new edition is obvious. Since 1992 new assays have been introduced for research, diagnosis, and therapy of thrombosis; for other assays improvements have been suggested, while a

few others became redundant.
The editors waived the radioimmunoassays of ~-thromboglobulin and platelet factor 4 due to the fact that the kits required for these assays are rarely, or no longer, available. Also the PAI-1 activity assay was waived as it is liable to many inconsistencies and to large variations. A list of names and addresses of manufacturers marketing the kits and reagents has been compiled, together with a list of the recommended nomenclature of quantities in thrombosis and haemostasis, in order to facilitate the use of the updated version. These lists have been carefully compiled by Johannes J. Sidelmann, PhD, Department of Clinical Biochemistry in Esbjerg, Denmark.
Special Economic Zones in Africa Elsevier
"Applied Cross-Coupling Reactions" provides students and teachers of advanced organic chemistry with an overview of the history, mechanisms and applications of cross-coupling reactions. Since the discovery of the transition-metal-catalyzed cross-coupling reactions in 1972, numerous synthetic uses and industrial applications have been developed. The mechanistic studies of the cross-coupling reactions have disclosed that three fundamental reactions: oxidative addition,

transmetalation, and reductive elimination, are involved in a catalytic cycle. Cross-coupling reactions have allowed us to produce a variety of compounds for industrial purposes, such as natural products, pharmaceuticals, liquid crystals and conjugate polymers for use in electronic devices. Indeed, the Nobel Prize for Chemistry in 2010 was awarded for work on cross-coupling reactions. In this book, the recent trends in cross-coupling reactions are also introduced from the point of view of synthesis design and catalytic activities of transition-metal catalysts.

Bretherick's Handbook of Reactive Chemical Hazards
CRC Press

The question facing anyone contemplating a book on low back pain is : Why write another book? It is certainly true that there are many books on this topic addressing a wide variety of audiences. Some books are all inclusive and scholarly in nature, others are personal descriptions of diagnostic and treatment philosophies. This book is a combination of these two extremes. It represents our views on the low back problem, supported by scientific data. Most aspects on back pain presented in this book can be found in other texts. The

organization of the material is unique, however. Our approach is to start by listening to and looking at the patient. It becomes apparent, then, that patients can be classified into one of the syndromes described in chapters 4 through 13. We believe that this syndrome classification, which is quite simple to make clinically, will allow you to diagnose and treat your patients more effectively. To set the stage for the syndrome chapters the first three chapters of the book are generic to the remaining chapters. They review the epidemiology, pathology, biomechanics, etiologic theory, diagnostic methods, and treatment modalities applicable to the low back syndromes. They should be read before the syndrome chapters. At the end of the book you will find four chapters that are specific to disease entities.

Engaged Fatherhood for Men, Families and Gender Equality
Springer Science & Business Media

Until the late 1980s, information processing was associated with large mainframe computers and huge tape drives. During the 1990s, this trend shifted toward information processing with personal

computers, or PCs. The trend toward miniaturization continues and in the future the majority of information processing systems will be small mobile computers, many of which will be embedded into larger products and interfaced to the physical environment. Hence, these kinds of systems are called embedded systems. Embedded systems together with their physical environment are called cyber-physical systems. Examples include systems such as transportation and fabrication equipment. It is expected that the total market volume of embedded systems will be significantly larger than that of traditional information processing systems such as PCs and mainframes. Embedded systems share a number of common characteristics. For example, they must be dependable, efficient, meet real-time constraints and require customized user interfaces (instead of generic keyboard and mouse interfaces). Therefore, it makes sense to consider common principles of embedded system design. Embedded System Design starts with an introduction into the area and a survey of specification models and

languages for embedded and cyber-physical systems. It provides a brief overview of hardware devices used for such systems and presents the essentials of system software for embedded systems, like real-time operating systems. The book also discusses evaluation and validation techniques for embedded systems. Furthermore, the book presents an overview of techniques for mapping applications to execution platforms. Due to the importance of resource efficiency, the book also contains a selected set of optimization techniques for embedded systems, including special compilation techniques. The book closes with a brief survey on testing.

Embedded System Design can be used as a text book for courses on embedded systems and as a source which provides pointers to relevant material in the area for PhD students and teachers. It assumes a basic knowledge of information processing hardware and software. Courseware related to this book is available at <http://ls12-www.cs.tu-dortmund.de/~marwedel>.

Linear Models with R John Wiley & Sons

In a conceptually current, quick-reference, Question &

Answer format, the second edition of **Handbook of Practical Immunohistochemistry: Frequently Asked Questions** continues to provide a comprehensive and yet concise state-of-the-art overview of the major issues specific to the field of immunohistochemistry. With links to the authors Immunohistochemical Laboratory website, this volume creates a current and up-to-date information system on immunohistochemistry. This includes access to tissue microarrays (TMA) of over 10,000 tumors and normal tissue to validate common diagnostic panels and provide the best reproducible data for diagnostic purposes. Fully revised and updated from the first edition, the new features of the second edition include over 200 additional questions or revised questions with an IHC panel to answer each question; over 250 new color photos and illustrations; over 20 new useful biomarkers; hundreds of new references; several new chapters to cover phosphoproteins, rabbit monoclonal antibodies, multiplex IHC stains, overview of predictive biomarkers, and integration of IHC into molecular pathology; many new coauthors who are international experts in a related field; many updated IHC panels using Geisinger IHC data collected from over 10,000 tumors and normal

tissues; and updated appendices containing detailed antibody information for both manual and automated staining procedures. Comprehensive yet practical and concise, the **Handbook of Practical Immunohistochemistry: Frequently Asked Questions, Second Edition** will be of great value for surgical pathologists, pathology residents and fellows, cytopathologists, and cytotechnologists.

Clinical Management of Male Infertility Springer

Of the thousands of novel compounds that a drug discovery project team invents and that bind to the therapeutic target, typically only a fraction of these have sufficient ADME/Tox properties to become a drug product. Understanding ADME/Tox is critical for all drug researchers, owing to its increasing importance in advancing high quality candidates to clinical studies and the processes of drug discovery. If the properties are weak, the candidate will have a high risk of failure or be less desirable as a drug product. This book is a tool and resource for scientists engaged in, or preparing for, the selection and optimization process. The authors describe how properties affect in vivo pharmacological activity and impact in vitro assays. Individual drug-like properties are discussed from a practical

point of view, such as solubility, permeability and metabolic stability, with regard to fundamental understanding, applications of property data in drug discovery and examples of structural modifications that have achieved improved property performance. The authors also review various methods for the screening (high throughput), diagnosis (medium throughput) and in-depth (low throughput) analysis of drug properties. Serves as an essential working handbook aimed at scientists and students in medicinal chemistry Provides practical, step-by-step guidance on property fundamentals, effects, structure-property relationships, and structure modification strategies Discusses improvements in pharmacokinetics from a practical chemist's standpoint Lumbar Spine Syndromes Springer Nature Semiconductor sensors patterned at the micron scale combined with custom-designed integrated circuits have revolutionized semiconductor radiation detector systems. Designs covering many square meters with millions of signal channels are now commonplace in high-energy physics and the technology is finding its way into many other fields, ranging from astrophysics to experiments at synchrotron light sources

and medical imaging. This book is the first to present a comprehensive discussion of the many facets of highly integrated semiconductor detector systems, covering sensors, signal processing, transistors and circuits, low-noise electronics, and radiation effects. The diversity of design approaches is illustrated in a chapter describing systems in high-energy physics, astronomy, and astrophysics. Finally a chapter "Why things don't work" discusses common pitfalls. Profusely illustrated, this book provides a unique reference in a key area of modern science. Make Life Visible John Wiley & Sons
INTRODUCTORY NUCLEAR PHYSICS Transmission Electron Microscopy Springer Science & Business Media This classic textbook in the field, now completely revised and updated, provides a bridge between theory and practice. Appropriate for the second course in Finance for MBA students and the first course in Finance for doctoral students, the text prepares students for the complex world of modern financial scholarship and practice. It presents a unified treatment of finance

combining theory, empirical evidence and applications. Assistive Technology for Visually Impaired and Blind People Springer Science & Business Media Valuation is a topic that is extensively covered in business degree programs throughout the country. Damodaran's revisions to "Investment Valuation" are an addition to the needs of these programs. Accuracy and Stability of Numerical Algorithms Springer This book is a well-illustrated and comprehensive guide to the etiology, clinical manifestations, diagnosis, clinical management and prevention of dental caries. Current challenging problems in the field are analyzed and the latest research findings, presented. After an introductory chapter on tooth development, the relationships of biofilm and saliva to dental caries and the significance of the balance between demineralization and remineralization for the development of carious lesions are discussed. Subsequent chapters address the state of the art in diagnosis and treatment, the implications of disease burden for prevention and the association between systemic diseases and dental caries. Dental Caries: Principles and Management is intended for dental school students, practicing dentists and researchers in dentistry. Forensic Neuropathology UNESCO Publishing Medical Cell Biology, Third Edition, focuses on the scientific aspects of cell biology important to medical students,

dental students, veterinary students, and prehealth undergraduates. With its National Board-type questions, this book is specifically designed to prepare students for this exam. The book maintains a concise focus on eukaryotic cell biology as it relates to human and animal disease, all within a manageable 300-page format. This is accomplished by explaining general cell biology principles in the context of organ systems and disease. This updated version contains 60% new material and all new clinical cases. New topics include apoptosis and cell death from a neural perspective; signal transduction as it relates to normal and abnormal heart function; and cell cycle and cell division related to cancer biology. 60% New Material! New Topics include: Apoptosis and cell death from a neural perspective Signal transduction as it relates to normal and abnormal heart function Cell cycle and cell division related to cancer biology All new clinical cases Serves as a prep guide to the National Medical Board Exam with sample board-style questions (using Exam Master(R) technology): www.exammaster.com Focuses on eukaryotic cell biology as it related to human disease, thus making the subject more accessible to pre-med and pre-health students