

Physiology Phy 306 Ain Shams University

The Meaning of the Built Environment is a lively illustrated study of the meanings of everyday buildings for their users. Professor Rapoport uses examples and vignettes, drawn from many cultures and historical eras as well as contemporary America, to explicate a new framework for understanding how the built environment comes to have meaning, both for individual people and whole societies.

Lists for 19 include the Mathematical Association of America, and 1955- also the Society for Industrial and Applied Mathematics.

This volume follows up a seminal meeting, presenting reports on progress made with recommendations made there. The text reports on the development of pilot projects and on the organization of an international organization. All this will serve as the foundation for future efforts to develop the common utilisation of cash crop halophytes.

Kangaroo mother care is a method of care of preterm infants which involves infants being carried, usually by the mother, with skin-to-skin contact. This guide is intended for health professionals responsible for the care of low-birth-weight and preterm infants. Designed to be adapted to local conditions, it provides

guidance on how to organize services at the referral level and on what is needed to provide effective kangaroo mother care.

This completely revised and updated second edition integrates the many new technologies and insights now available for the diagnosis of genetic diseases. The authors use such methodologies as PCR optimization dosage analysis, mutation scanning, and quantitative fluorescent PCR for aneuploidy analysis, Neurofibromatosis type 1, and Duchenne muscular dystrophy. These largely generic methodologies may be adapted to most genetic conditions for which a molecular diagnosis is relevant. *Molecular Diagnosis of Genetic Diseases, Second Edition* offers diagnostic molecular geneticists a unique opportunity to sharpen their scientific skills in the design of assays, their execution, and their interpretation.

This comprehensive volume provides a balanced and easily readable account of the rise of modern sleep medicine, its history and developmental milestones. Authored by an international group of experts, the remarkable progress and fascinating evolution from rudimentary concepts of the ancient prehistoric and early classical periods to our contemporary knowledge are covered in detail. These examples and their relationship to modern therapies offer neurologists, psychiatrists, respiratory specialists, clinicians, researchers and those interested

in sleep medicine an important perspective to the origins of current practice. This book explores comorbidity in patients with rheumatic diseases and details both care and treatment options in standard clinical practice. Patients with rheumatic diseases are clinically complex, and the interplay of their disease activity with associated conditions may lead to increased morbidity and mortality. Recently there have been major advances in the management of rheumatic diseases, however, without addressing the potential comorbid conditions, including cardiovascular disease; pulmonary disease; and depression; outcomes remain poor. ??? With its 19 chapters, covering the management of major rheumatic diseases (e.g. rheumatoid arthritis, systemic lupus erythematosus , and osteoarthritis), potential comorbidities and treatment recommendations, as well as possible interactions between conditions; this book addresses the gap between textbook medicine and day to day patients' care. Authors also discuss the new hot issue of the comorbidity index, comparing the standard tools to the recently developed indices and how they can assist the rheumatologists in determining disease burden, prognosis, and comorbidity probability. This book is an ideal clinical guide and reference that enables rheumatologists, internal medicine physicians, and residents to address the full clinical expression of these rheumatic diseases with views towards prevention or early management of

comorbid conditions.

Completely new textile technologies have recently been developed with the goal of giving additional functionality to garments. Textiles have been improved to protect against UV radiation and toxic gases or to enhance breathability. In addition, they may have integrated sensors to diagnose medical conditions or may be equipped with carrier molecules to absorb substances from the skin and release therapeutic compounds. At the same time, the awareness of unwanted effects clothing may have on human health has increased. This volume familiarizes the dermatologist, allergologist and occupational physician with what he should know about textiles, and, on the other hand, the textile or chemical engineer with what he should know about the human skin. Further, it is divided into two parts the first of which discusses the functionality of textiles also in medicine, for instance in the prevention of skin infections or wound healing. The last part deals with allergic contact and irritant dermatitis and the risks of possible exposure to hazardous chemical residues in textiles. For the first time the knowledge of textile engineers and dermatologists has been brought together to stimulate a promising interchange.

Is an up-to-date, concise, factual reference describing the dental management of patients with selected medical problems. The book offers the dental provider an

understanding of how to ascertain the severity and stability of common medical disorders, and make dental management decisions that afford the patient the utmost health and safety. Medical problems are organized to provide a brief overview of the basic disease process, the incidence and prevalence of the disease, pathophysiology, signs and symptoms, laboratory findings, currently accepted medical therapy of each problem, and a detailed explanation and recommendations for specific dental management. The accumulation of evidence-based research over the last few years has allowed the authors to include more specific dental management guidelines in the sixth edition.

Dr. Anjali Aggarwal is working as a Senior Scientist at National Dairy Research Institute, Karnal (India). She holds a PhD degree in Animal Physiology and is involved in research and teaching at post-graduate level. Her area of research work is stress and environmental physiology. She has more than 50 publications, two technical bulletins, four manuals and many book chapters to her credit. She has successfully guided many post-graduate and PhD students. Her major research accomplishments are on microclimatic modification for alleviation of heat and cold stress, mist and fan cooling systems for cows and buffaloes, and use of wallowing tank in buffaloes. Her work involves the use of technology of supplementing micronutrients during dry period and early lactation to crossbred

and indigenous cows for alleviating metabolic and oxidative stress and improved health and productivity. Studies are also done in her lab on partitioning of heat loss from skin and pulmonary system of cattle and buffaloes as a result of exercise or exposure to heat stress. Dr. R.C. Upadhyay is working as Head, Dairy Cattle Physiology Division at National Dairy Research Institute, Karnal (India). He graduated in Veterinary Sciences and obtained his PhD degree in Animal Physiology. His area of recent research is climate change, stress, and environmental physiology. His major research accomplishment is on climate change impact assessment of milk production and growth in livestock. His work also involves studying methane conversion and emission factors for Indian livestock and use of IPCC methodology of methane inventory of Indian livestock. Heat shock protein-70 expression studies in cattle and buffaloes are also done in his lab. Draught animal power evaluation, fatigue assessment, work-rest cycle and work limiting factors form the highlights of his work. Studies on partitioning of heat loss from skin and pulmonary system of cattle and buffaloes and electrocardiographic studies in cattle, buffalo, sheep and goat are also undertaken in his lab. He has more than 75 research papers, four books and several book chapters to his credit. Technologies developed and research done by him include methodology of methane measurement: open and closed circuit

for cattle and buffaloes; inventory of methane emission from livestock using IPCC methodology; livestock stress index: thermal stress measurement based on physiological functions; and draught power evaluation system and large animal treadmill system. He received training in Radio-nuclides in medicine at Australian School of Nuclear Technology, Lucas heights, NSW, Australia in 1985 and Use of radioisotopes in cardiovascular investigations at CSIRO, Prospect, NSW, Australia, during 1985-86. He has guided several post-graduate and PhD students. He is recipient of Hari Om Ashram Award-1990 (ICAR) for outstanding research in animal sciences.

What existed before the Universe was created? Where does self-worth come from? Do the ends always justify the means? The Philosophy Book answers the most profound questions we all have. It is your visual guide to the fundamental nature of existence, society, and how we think. Discover what it means to be free, whether science can predict the future, or how language shapes our thoughts. Learn about the world's greatest philosophers, from Plato and Confucius to modern thinkers such as Chomsky and Derrida and follow charts and timelines that graphically show the progression of ideas and logic. Written in plain English, with concise explanations of branches of philosophy such as metaphysics and ethics, it untangles complicated theories and makes sense of

abstract concepts. It is an ideal reference whether you're a student or a general reader, with simple explanations of big ideas, including the four noble truths, the soul, class struggle, moral purpose, and good and evil. If you're curious about the deeper questions in life, The Philosophy Book is both an invaluable reference and illuminating read.

Crop Physiology Abstracts Heat Stress and Animal Productivity Springer Science & Business Media

Nature-Inspired Computing: Physics and Chemistry-Based Algorithms provides a comprehensive introduction to the methodologies and algorithms in nature-inspired computing, with an emphasis on applications to real-life engineering problems. The research interest for Nature-inspired Computing has grown considerably exploring different phenomena observed in nature and basic principles of physics, chemistry, and biology. The discipline has reached a mature stage and the field has been well-established. This endeavour is another attempt at investigation into various computational schemes inspired from nature, which are presented in this book with the development of a suitable framework and industrial applications. Designed for senior undergraduates, postgraduates, research students, and professionals, the book is written at a comprehensible level for students who have some basic knowledge of calculus and differential equations, and some exposure to optimization theory. Due to the focus on search and optimization, the book is also appropriate for electrical, control, civil, industrial and manufacturing engineering, business, and economics students, as well as those in computer and information sciences. With the mathematical and programming references and

applications in each chapter, the book is self-contained, and can also serve as a reference for researchers and scientists in the fields of system science, natural computing, and optimization. Examines the contribution of psychological theory to our understanding of human behaviour at work. It covers both personnel issues such as a selection and training and organizational issues such as decision making. This edition includes new material and coverage of organizational culture and design. unfamiliar with the theory of work psychology as well as those with a basic grounding in the subject. There is also new material on change and development and the issue of power at individual, group and organizational levels. It contains case studies and practical illustrations. An instructor's manual available with suggested short answer, essay and project assignments based on the content of each chapter.

This title was first pulished in 2000: This collection of essays provides an excellent integrated source for the latest thinking in multiple disciplines on the issue of culture and its relationship with built form and hence, human environmental experience. Whether one is primarily interested in how culture-built environment inquiry affects: theoretical issues, research approaches, research findings, practical applications, or has implications for teaching, this book provides an engaging dialogue in regard to each of these perspectives. As important, the book's introduction provides a conceptual framework for integrating the various contributions in a meaningful and systemic fashion. Contributors come from disciplines including anthropology, architecture, human ecology, psychology and urban planning.

The present work is meant as a reference to provide an organic and comprehensive view of the most relevant results in the exciting new field of Networks of Networks (NetoNets). Seminal papers have recently been published posing the basis to study what happens when different

networks interact, thus providing evidence for the emergence of new, unexpected behaviors and vulnerabilities. From those seminal works, the awareness on the importance understanding Networks of Networks (NetoNets) has spread to the entire community of Complexity Science. The reader will benefit from the experience of some of the most well-recognized leaders in this field. The contents have been aggregated under four headings; General Theory, Phenomenology, Applications and Risk Assessment. The reader will be impressed by the different applications of the general paradigm that span from physiology, to financial risk, to transports. We are currently making the first steps to reduce the distance between the language and the way of thinking of the two communities of experts in real infrastructures and the complexity scientists. Although this path may prove to be long, it is extremely promising, both in extending our understanding of complex systems and in finding concrete applications that can enhance the life quality of millions of people.

This book is the first to describe a practical evidence-based approach to the management of critically ill obese patients with various medical or postoperative respiratory problems in the intensive care unit. In brief, the book aims to identify the best strategy and present clinical recommendations for different circumstances, to establish indications for and contraindications to noninvasive and invasive mechanical ventilation, and to offer clear guidance on weaning from mechanical ventilation and on respiratory care. Causes of acute respiratory failure in the obese patient are discussed, and advice is offered on the prevention and management of complications during mechanical ventilation and on moving and feeding critically ill obese patients. Long-term outcomes, ethical issues, and health care costs are also addressed. The multidisciplinary approach, with contributions from international experts in different specialties,

ensures that the book will be of interest to a range of health professionals involved in critical care, including intensivists, anesthesiologists, and pulmonologists.

The second, fully updated edition of this book applies and contextualizes up-to-date information on pediatric surgery for low and middle-income countries (LMICs). The book is organized in general anatomic and thematic sections within pediatric surgery, such as urology, oncology, orthopedics and gastroenterology and includes chapters addressing the unique challenges and approaches for pediatric surgery in low-resource settings. Each chapter has dual authorship LMIC author providing context-specific insights and authors from high-income countries (HICs) contributing experience from well-resourced settings. Written in a reader-friendly format, this book has a uniform structure in each chapter, with introduction, demographics, etiology, pathophysiology, clinical presentations, investigations, management, outcome, prevention, ethics, evidence-based surgery and references. This comprehensive volume fills the gap between up-to-date pediatric surgical scholarship and knowledge developed and applied in HICs, and the practical needs of practitioners in low-resource settings. This is an indispensable guide for postgraduate surgical trainees in Africa and other LMICs as well as general surgeons practicing in Africa and other LMICs, who need to care surgically for children.

In recent years the development of new technologies has permitted the production of 'functional' or 'smart' textiles. These fabrics are capable of sensing changes in environmental conditions or body functions and are adequately responding to them. They are able to absorb substances from the skin or to

release therapeutic or cosmetic compounds. For instance, they can be used in underwear with an integrated cardio-online system or as textiles with carrier molecules. The focal point of interest in biofunctional textiles lies currently on the use of textiles supporting therapy and prevention in dermatology. This volume collects information about new trends in the interaction between textiles and the skin, particularly the development of antimicrobial finished textiles. It presents a selection of papers which will contribute to further consolidate the dialogue between dermatologists, allergologists, biomaterial scientists and textile engineers.

This book includes selected papers from the International Conference on Data Science and Intelligent Applications (ICDSIA 2020), hosted by Gandhinagar Institute of Technology (GIT), Gujarat, India, on January 24–25, 2020. The proceedings present original and high-quality contributions on theory and practice concerning emerging technologies in the areas of data science and intelligent applications. The conference provides a forum for researchers from academia and industry to present and share their ideas, views and results, while also helping them approach the challenges of technological advancements from different viewpoints. The contributions cover a broad range of topics, including: collective intelligence, intelligent systems, IoT, fuzzy systems, Bayesian

networks, ant colony optimization, data privacy and security, data mining, data warehousing, big data analytics, cloud computing, natural language processing, swarm intelligence, speech processing, machine learning and deep learning, and intelligent applications and systems. Helping strengthen the links between academia and industry, the book offers a valuable resource for instructors, students, industry practitioners, engineers, managers, researchers, and scientists alike.

This book presents the state-of-the-art in plant ecophysiology. With a particular focus on adaptation to a changing environment, it discusses ecophysiology and adaptive mechanisms of plants under climate change. Over the centuries, the incidence of various abiotic stresses such as salinity, drought, extreme temperatures, atmospheric pollution, metal toxicity due to climate change have regularly affected plants and, and some estimates suggest that environmental stresses may reduce the crop yield by up to 70%. This in turn adversely affects the food security. As sessile organisms, plants are frequently exposed to various environmental adversities. As such, both plant physiology and plant ecophysiology begin with the study of responses to the environment. Provides essential insights, this book can be used for courses such as Plant Physiology, Environmental Science, Crop Production and Agricultural Botany. Volume 1

provides up-to-date information on the impact of climate change on plants, the general consequences and plant responses to various environmental stresses. This Book of Abstracts is the main publication of the 69th Annual Meeting of the European Federation of Animal Science (EAAP). It contains abstracts of the invited papers and contributed presentations of the sessions of EAAP's eleven Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems, Insects and Precision Livestock Farming.

This book consists of peer-reviewed papers, presented at the International Conference on Sustainable Design and Manufacturing (SDM 2020). Leading-edge research into sustainable design and manufacturing aims to enable the manufacturing industry to grow by adopting more advanced technologies and at the same time improve its sustainability by reducing its environmental impact. Relevant themes and topics include sustainable design, innovation and services; sustainable manufacturing processes and technology; sustainable manufacturing systems and enterprises; and decision support for sustainability. Application areas are wide and varied. The book provides an excellent overview of the latest developments in the sustainable design and manufacturing areas.

The Cerebellum and Cognition pulls together a preeminent group of authors. The cerebellum has been previously considered as a highly complex structure involved only with motor control. The cerebellum is essential to nonmotor functions, and recent research has revealed new medically important roles of the cerebellum and cognitive processes. Selected for inclusion in Doody's Core Titles 2013, an essential collection development tool for health sciences libraries Comprehensive coverage of cerebellum in motor control and cognition New developments regarding the cerebellum and motor systems Therapeutic implications of cerebellar contributions to cognition Preeminent group of contributors

Global wheat consumption in the 2016/2017 season is forecasted to reach a record high 736m tonnes, showing a growth of 25% in the last 15 years. This raises the question which outlets the wheat is going into, what the growth of these outlets is, which regions or countries have grown the most, and where do we see future potential. Strong competition of other feed grains like corn is expected to slow the growth of wheat used for feed in the next years, and in the future, companies involved in the grain supply chain and feeding industry will need to be flexible enough to continue to meet this fast-changing demand for feed grains. For feed producers, this means they need to be able to access supplies of different grains from different origins to allow for the

cheapest composition of their feed, while grain suppliers need to be able to continuously best engage with global trading opportunities to originate grains in various regions and move them to demand regions as cost-effectively as possible.

Within the continuum of reproductive health care, antenatal care provides a platform for important health-care functions, including health promotion, screening and diagnosis, and disease prevention. It has been established that, by implementing timely and appropriate evidence-based practices, antenatal care can save lives. Endorsed by the United Nations Secretary-General, this is a comprehensive WHO guideline on routine antenatal care for pregnant women and adolescent girls. It aims to complement existing WHO guidelines on the management of specific pregnancy-related complications. The guidance captures the complex nature of the antenatal care issues surrounding healthcare practices and delivery, and prioritizes person-centered health and well-being --- not only the prevention of death and morbidity --- in accordance with a human rights-based approach.

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