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A description of military helmets from around the world.

Forty-two chapters by international experts from a wide range of disciplines make The Wetlands Handbook the essential tool for those seeking comprehensive understanding of the subject. A departure from more traditional treatises, this text examines freshwater wetland ecosystem science from the fundamentals to issues of management and policy. Introductory chapters address the scope and significance of wetlands globally for communities, culture and biodiversity. Subsequent sections deal with processes underpinning wetland functioning, how wetlands work, their uses and values for humans and nature, their sensitivity to external impacts, and how they may be restored. The text is illustrated by numerous examples, emphasizing functional and holistic approaches to wetland management, including case studies on the wise use and rehabilitation of wetlands in farmed, urban, industrial and other damaged environments, highlighting the long-term benefits of multiple use. The Wetlands Handbook will provide an invaluable reference for researchers, managers, policy-makers and students of wetland sciences.

Genetic epidemiology is a field that has acquired a central role in modern biomedical science. This book provides an introduction to genetic epidemiology that begins with a primer in human molecular genetics and then examines the standard methods in population genetics and genetic epidemiology.

This book introduces the fundamental aspects of digital imaging and covers four main themes: ultrasound techniques and imaging applications, magnetic resonance and MPJ in hospital, digital imaging with X-rays, and emission tomography (PET and SPECT). Each topic is developed by analyzing the underlying physics principles and their implementation, quality and safety aspects, clinical performance, and recent advancements in the field.

From the 39th annual conference of the International Society on Oxygen Transport to Tissue (ISOTT), held in Washington, DC, USA in July 2011, this volume covers aspects of oxygen transport from air to the cells, organs and organisms; instrumentation and methods to sense oxygen and clinical evidence. Oxygen Transport to Tissue XXXIV includes contributions from scientists (physicists, biologists and chemists), engineers, clinicians and mathematicians.

The present book is the outcome of an Advanced Study Institute meeting, which was held in Kallithea, Chalkidiki, in Northern Greece, from 12-25 May 1991 and attended by 69 delegates from 18 countries. The Institute brought together scientists, engineers and technologists currently involved in basic and applied research on the different aspects of flotation. The Institute covered subjects in four major areas of flotation: a) fundamentals; b) chemical technology aspects; c) mineral processing; and d) water and wastewater treatment. Apart from the papers reproduced in this volume, several short oral communications were also presented. Participants also had the opportunity to visit the Hellenic Chemical Products & Fertilizers Co. Ltd. mixed sulphides plant, in Chalkidiki. Conference participants, whose interest and research projects are in this broad field of science and engineering, provided a well-informed discussion of the problems encountered, as well as possible directions of future technological developments. It is hoped that this book is not only a good record of the presentations made (formal and informal), analyzing the state-of-the-art in flotation, but will also be helpful for students, scientists and technologists working in the fields of separation processes and in particular mineral processing and wastewater engineering. All the invited speakers and the participants made this summer school possible, worthwhile and enjoyable. The sponsorship by the NATO Scientific Affairs Division is gratefully acknowledged. The Editors would like to thank the members of the Organizing Committee, Dr. B.A.

This book highlights recent findings in industrial, manufacturing and mechanical engineering, and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering are discussed, including the dynamics of machines and working processes, friction, wear and lubrication in machines, surface transport and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems and their industrial applications, industrial mechatronics, automation and robotics. The book gathers selected papers presented at the 5th International Conference on Industrial Engineering (ICIE), held in Sochi, Russia in March 2019. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, the book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates.

Do you want to learn Hungarian the fast, fun and easy way? And do you want to master daily conversations and speak like a native? Then this is the book for you. Learn Hungarian: Must-Know Hungarian Slang Words & Phrases by HungarianPod101 is designed for Beginner-level learners. You learn the top 100 must-know slang words and phrases that are used in everyday speech. All were hand-picked by our team of Hungarian teachers and experts. Here's how the lessons work: • Every Lesson is Based on a Theme • You Learn Slang Words or Phrases Related to That Theme • Check the Translation & Explanation on How to Use Each One And by the end, you will have mastered 100+ Hungarian Slang Words & phrases!

From its foundation in 1826, UCL embraced a progressive and pioneering spirit. It was the first university in England to admit students regardless of religion and made higher education affordable and accessible to a much broader section of society. It was also effectively the first university to welcome women on equal terms with men. From the outset UCL showed a commitment to innovative ideas and new methods of teaching and research. This book charts the history of UCL from 1826 through to the present day, highlighting its many contributions to society in Britain and around the world. It covers the expansion of the university through the growth in student numbers and institutional mergers. It documents shifts in governance throughout the years and the changing social and economic context in which UCL operated, including challenging periods of reconstruction after two World Wars. Today UCL is one of the powerhouses of research and teaching, and a truly global university. It is currently seventh in the QS World

University Rankings. This completely revised and updated edition features a new chapter based on interviews with key individuals at UCL. It comes at a time of ambitious development for UCL with the establishment of an entirely new campus in East London, UCL East, and Provost Michael Arthur's 'UCL 2034' strategy which aims to secure the university's long-term future and commits UCL to delivering global impact.

Food is fundamental to health and social participation, yet food poverty has increased in the global North. Adopting a realist ontology and taking a comparative case approach, *Families and Food in Hard Times* addresses the global problem of economic retrenchment and how those most affected are those with the least resources. Based on research carried out with low-income families with children aged 11-15, this timely book examines food poverty in the UK, Portugal and Norway in the decade following the 2008 financial crisis. It examines the resources to which families have access in relation to public policies, local institutions and kinship and friendship networks, and how they intersect.

Through 'thick description' of families' everyday lives, it explores the ways in which low income impacts upon practices of household food provisioning, the types of formal and informal support on which families draw to get by, the provision and role of school meals in children's lives, and the constraints upon families' social participation involving food. Providing extensive and intensive knowledge concerning the conditions and experiences of low-income parents as they endeavour to feed their families, as well as children's perspectives of food and eating in the context of low income, the book also draws on the European social science literature on food and families to shed light on the causes and consequences of food poverty in austerity Europe.

Calcium ions represent Mother Nature's 'ion-of-choice' for regulating fundamental physiological functions, as they initiate a new life at the time of fertilization and guide subsequent developmental and physiological functions of the human body. Calcium channels, which act as gated pathways for the movement of calcium ions across the membranes, play a central part in the initiation of calcium signals, and defects in calcium channel function have been found to result in a plethora of human diseases, referred to as the calcium channelopathies. *Pathologies of Calcium Channels* brings together leading international experts to discuss our current understanding of human diseases associated with the various calcium channels, from their molecular basis to potential future therapeutic targeting of calcium channels.

Scientists use concepts and principles that are partly specific for their subject matter, but they also share part of them with colleagues working in different fields. Compare the biological notion of a 'natural kind' with the general notion of 'confirmation' of a hypothesis by certain evidence. Or compare the physical principle of the 'conservation of energy' and the general principle of 'the unity of science'. Scientists agree that all such notions and principles aren't as crystal clear as one might wish. An important task of the philosophy of the special sciences, such as philosophy of physics, of biology and of economics, to mention only a few of the many flourishing examples, is the clarification of such subject specific concepts and principles. Similarly, an important task of 'general' philosophy of science is the clarification of concepts like 'confirmation' and principles like 'the unity of science'. It is evident that clarification of concepts and principles only makes sense if one tries to do justice, as much as possible, to the actual use of these notions by scientists, without however following this use slavishly. That is, occasionally a philosopher may have good reasons for suggesting to scientists that they should deviate from a standard use. Frequently, this amounts to a plea for differentiation in order to stop debates at cross-purposes due to the conflation of different meanings. While the special volumes of the series of *Handbooks of the Philosophy of Science* address topics relative to a specific discipline, this general volume deals with focal issues of a general nature. After an editorial introduction about the dominant method of clarifying concepts and principles in philosophy of science, called explication, the first five chapters deal with the following subjects. Laws, theories, and research programs as units of empirical knowledge (Theo Kuipers), various past and contemporary perspectives on explanation (Stathis Psillos), the evaluation of theories in terms of their virtues (Ilkka Niiniluoto), and the role of experiments in the natural sciences, notably physics and biology (Allan Franklin), and their role in the social sciences, notably economics (Wenceslao Gonzalez). In the subsequent three chapters there is even more attention to various positions and methods that philosophers of science and scientists may favor: ontological, epistemological, and methodological positions (James Ladyman), reduction, integration, and the unity of science as aims in the sciences and the humanities (William Bechtel and Andrew Hamilton), and logical, historical and computational approaches to the philosophy of science (Atocha Aliseda and Donald Gillies). The volume concludes with the much debated question of demarcating science from non-science (Martin Mahner) and the rich European-American history of the philosophy of science in the 20th century (Friedrich Stadler). Comprehensive coverage of the philosophy of science written by leading philosophers in this field
Clear style of writing for an interdisciplinary audience
No specific pre-knowledge required

Guide to the Wiring Regulations 17th Edition IEE Wiring Regulations (BS 7671: 2008) Darrell Locke IEng MIEE ACIBSE, Electrical Contractors' Association, UK Essential for electrical installers and installation designers, the IEE Wiring Regulations (BS 7671) have been completely restructured and updated for the first time in over a decade: this 17th Edition of the IEE Wiring Regulations (BS 7671: 2008) will come into effect in June 2008. Guide to the Wiring Regulations is an authoritative and accessible guide to the 17th Edition, illustrating the changes and providing real solutions to the problems that can often occur with practical interpretation. Written and developed by the Electrical Contractors' Association, Guide to the Wiring Regulations brings a wealth of experience to the subject and offers clear explanations of the changes in the standard. Starting with full coverage of the legal requirements the book then goes on to: provide extensive advice on circuit design, selection and erection, wiring systems, earthing and bonding; explore the additional requirements of the Standard for protection against voltage disturbances and implementation of measures against electromagnetic influences (EMC); elaborate on the alterations to the inspection and testing requirements; feature practical information on the new special locations included in the 17th Edition, particularly exhibitions, shows and

stands, floor and ceiling heating systems, mobile or transportable units and photovoltaic power systems; highlight the changes made in the new edition to existing special locations, including bathrooms, swimming pools, agricultural and horticultural premises and caravan/camping parks. Guide to the Wiring Regulations is an outstanding resource for all users of the 17th Edition IEE Wiring Regulations (BS 7671: 2008) including electricians who want a better understanding of the theory behind the Standard, electrical technicians, installation engineers, design engineers, and apprentices. Both trainees and practitioners will find this guide indispensable for understanding the impact of the changes introduced in the 17th Edition (BS 7671: 2008). Additional supporting material is available at www.wiley.com/go/eca_wiringregulations

This open access book provides a comprehensive overview of volcanic crisis research, the goal being to establish ways of successfully applying volcanology in practice and to identify areas that need to be addressed for future progress. It shows how volcano crises are managed in practice, and helps to establish best practices. Consequently the book brings together authors from all over the globe who work with volcanoes, ranging from observatory volcanologists, disaster practitioners and government officials to NGO-based and government practitioners to address three key aspects of volcanic crises. First, the book explores the unique nature of volcanic hazards, which makes them a particularly challenging threat to forecast and manage, due in part to their varying spatial and temporal characteristics. Second, it presents lessons learned on how to best manage volcanic events based on a number of crises that have shaped our understanding of volcanic hazards and crises management. Third, it discusses the diverse and wide-ranging aspects of communication involved in crises, which merge old practices and new technologies to accommodate an increasingly challenging and globalised world. The information and insights presented here are essential to tapping established knowledge, moving towards more robust volcanic crises management, and understanding how the volcanic world is perceived from a range of standpoints and contexts around the globe.

New urban applications are emerging for remote sensing, in particular with the use of high-resolution data for measuring, monitoring and analysis. This comes through the use of high spatial resolution imaging, such as for precision mapping of cities; new techniques for population mapping; extracting urban land use features, and evaluating the city energy patterns; and through the use of night-time imagery for determining populations and economic activity, particularly on a global scale. Remotely Sensed Cities helps to redress the balance with remote sensing books, most of which are dedicated to the physical environment. It is designed for upper-level undergraduate and graduate students, along with research scientists and brings together a good deal of topical work applying remote sensing to the understanding of urban features, their behavior and growth.

While the previous two volumes in this series were based upon methodology, theory, and the relationship between ecology and population structure, this book can be viewed as an in-depth case study. The population genetics of a multitude of diverse groups geographically distributed throughout the world was examined in the first two volumes. In contrast, this volume focuses upon a single ethnic group, the Black Caribs (Garifuna) of Central America and St. Vincent Island, and explores the interrelationships among the ethnohistory, sociocultural characteristics, demography, morphology, and genetic structure of the group. This volume offers a broad and intensive treatment of the Black Caribs and their interactions with surrounding populations. My interest in the genetics of the Black Caribs was sparked by an accidental meeting in Amsterdam, Holland, in March 1975. A conversation with Nancie Gonzalez at the Applied Anthropology Meetings revealed the "truth-is-stranger-than-fiction" history of the Black Carib peoples of the Caribbean. This was a population with a small-sized founding group and a unique biological success story. Nancie Gonzalez was particularly interested in estimating the Carib Indian admixture in the contemporary Garifuna population. Given my previous experience in estimating Spanish and African admixture in the Tlaxcaltecan population (whose gene pool consisted predominantly of Indian alleles), a group that appeared to be primarily African with some Indian admixture was of great interest. Aside from the ethnohistorical interest, I believe that such a population may add considerably to our understanding of the inheritance of complex morphological traits.

Soils and sediments influence current processes, preserve evidence of past processes, indicate evolutionary phases in landscapes and provide a basis for relative and absolute chronologies. They provide an important key to the integration of short-term process studies and investigation of longer-term landform evolution. This book, first published in 1985, has been arranged to provide wide temporal and spatial coverage, with studies ranging from historic to geologic time scales and micro- to macro-spatial scales. The interdisciplinary nature of the subject is reflected in contributions from soil scientists, engineering geologists, hydrologists and geomorphologists.

The Journal of Offshore Technology Ship & Boat International The Waterways Journal Asia Pacific Shipping Digest of Japanese Industry & Technology DJIT. Nutrition and Diet Factors in Type 2 Diabetes MDPI

With the development of new quantitative strategies and powerful bioinformatics tools to cope with the analysis of the large amounts of data generated in proteomics experiments, liquid chromatography with tandem mass spectrometry (LC-MS/MS) is making possible the analysis of proteins on a global scale, meaning that proteomics can now start competing with cDNA microarrays for the analysis of whole genomes. In LC-MS/MS in Proteomics: Methods and Applications, experts in the field provide protocols and up-to-date reviews of the applications of LC-MS/MS, with a particular focus on MS-based methods of protein and peptide quantification and the analysis of post-translational modifications. Beginning with overviews of the use of LC-MS/MS in protein analysis, the book continues with topics such as protocols for the analysis of post-translational modifications, with particular focus on phosphorylation and glycosylation, popular techniques for quantitative proteomics, such as multiple reaction monitoring, metabolic labelling, and chemical tagging, biomarker discovery in biological fluids, as well as novel applications of LC-MS/MS. Written in the highly successful Methods in Molecular Biology™ series format, chapters include introductions to their respective subjects, lists of necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on

troubleshooting and avoiding known pitfalls. Comprehensive and cutting-edge, LC-MS/MS in Proteomics: Methods and Applications presents the techniques and concepts necessary in order to aid proteomic practitioners in the application of LC-MS/MS to essentially any biological problem.

The Cambridge Handbook of Thinking and Reasoning is the first comprehensive and authoritative handbook covering all the core topics of the field of thinking and reasoning. Written by the foremost experts from cognitive psychology, cognitive science, and cognitive neuroscience, individual chapters summarize basic concepts and findings for a major topic, sketch its history, and give a sense of the directions in which research is currently heading. The volume also includes work related to developmental, social and clinical psychology, philosophy, economics, artificial intelligence, linguistics, education, law, and medicine. Scholars and students in all these fields and others will find this to be a valuable collection.

'Karplus's tales of a turbulent graduate school experience at Caltech will inspire readers to muster fortitude when everything seems to be spinning out of control. Karplus balances rigorous scientific discussions with refreshing chapters expounding his passion for photography and gastronomy.' Nature Chemistry, May 2020 Nobel Laureate Martin Karplus was eight when his family fled Nazi-occupied Austria via Switzerland and France for the United States. He would later credit his life as a refugee as a decisive influence on his world view and approach to science. Spinach on the Ceiling is an autobiographical telling of Karplus' life story, and how it led him to win the Nobel Prize in Chemistry in 2013. The book captures pivotal moments in Martin's life — from his escape to Switzerland in 1938 shortly after Hitler's entrance into Austria; to memorable moments like when his parents gave him a microscope which opened his eyes to the wonders of science; to his education in New England and California; and his eventual scientific career which took him to England, Illinois, Columbia, Strasbourg, and Harvard. It relates how Martin's optimistic outlook and belief in his vision made it possible for him to overcome setbacks in his life, and turn a subject of study his colleagues considered a waste of time into a central part of chemistry and structural biology. It is his hope to inspire and aid young readers, in particular, to have a successful trajectory in their own lives. Although research and teaching have been his primary focus, he has traveled the world photographing people and places with a Leica IIC and has had numerous exhibitions of the photographs. He has also enjoyed a lifelong interest in cooking and worked in some of the best restaurants in France and Spain.

This book is a printed edition of the Special Issue "Nutrition and Diet Factors in Type 2 Diabetes" that was published in Nutrients

How and Why to Read and Create Children's Digital Books outlines effective ways of using digital books in early years and primary classrooms, and specifies the educational potential of using digital books and apps in physical spaces and virtual communities. With a particular focus on apps and personalised reading, Natalia Kucirkova combines theory and practice to argue that personalised reading is only truly personalised when it is created or co-created by reading communities. Divided into two parts, Part I suggests criteria to evaluate the educational quality of digital books and practical strategies for their use in the classroom. Specific attention is paid to the ways in which digital books can support individual children's strengths and difficulties, digital literacies, language and communication skills. Part II explores digital books created by children, their caregivers, teachers and librarians, and Kucirkova also offers insights into how smart toys, tangibles and augmented/virtual reality tools can enrich children's reading for pleasure. How and Why to Read and Create Children's Digital Books is of interest to an international readership ranging from trainee or established teachers to MA level students and researchers, as well as designers, librarians and publishers. All are inspired to approach children's reading on and with screens with an agentic perspective of creating and sharing. Praise for How and Why to Read and Create Children's Digital Books 'This is an exciting and innovative book – not least because it is freely available to read online but because its origins are in primary practice. The author is an accomplished storyteller, and whether you know, as yet, little about the value of digital literacy in the storymaking process, or you are an accomplished digital player, this book is full of evidence-informed ideas, explanations and inspiration.' Liz Chamberlain, Open University 'At a time when children's reading is increasingly on-screen, many teachers, parents and carers are seeking practical, straightforward guidance on how to support children's engagement with digital books. This volume, written by the leading expert on personalised e-books, is packed with app reviews, suggestions and insights from recent international research, all underpinned by careful analysis of digital book features and recognition of reading as a social and cultural practice. Providing accessible guidance on finding, choosing, sharing and creating digital books, it will be welcomed by those excited by the possibilities of enthusing children about reading in the digital age.' Cathy Burnett, Professor of Literacy and Education, Sheffield Hallam University

A series of underwater and air explosion investigations was conducted using the Arbitrary Lagrangian-Eulerian (ALE) numerical technique. The investigation primarily examined the explosive-fluid, fluid-structure, and fluid-air interaction effects, and the shock wave pressure propagation through a subjected medium, with the intent of verifying and validating the ALE analysis. The research also noted the explosive-air and air-structure interaction effects as well as shock wave pressure propagation effects. Three-dimensional underwater explosion analyses was conducted using TNT detonations. Two-dimensional air explosion analyses was completed using TNT detonations. With viable ALE results, underwater and air explosion modeling and simulation could become dependable, cost-effective, and time efficient.

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