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[Robots on the Move](#) Springer Science & Business Media

Within the last few years, knowledge about vitamins has increased dramatically, resulting in improved understanding of human requirements for many vitamins. This new edition of a bestseller presents comprehensive summaries that analyze the chemical, physiological, and nutritional relationships, as well as highlight newly identified functions, for a Information Retrieval Springer Science & Business Media
"Explains how robots walk, roll, swim, and even fly from place to place"--

[Handbook of Marine Natural Products](#) Little, Brown Books for Young Readers

Psychiatric clinicians should use rating scales and questionnaires often, for they not only facilitate targeted diagnoses and treatment; they also facilitate links to empirical literature and systematize the entire process of management. Clinically oriented and highly practical, the Handbook of Clinical Rating Scales and Assessment in Psychiatry and Mental Health is an ideal tool for the busy psychiatrist, clinical psychologist, family physician, or social worker. In this ground-breaking text, leading researchers provide reviews of the most commonly used outcome and screening measures for the major psychiatric diagnoses and treatment scenarios. The full range of psychiatric disorders are covered in brief but thorough chapters, each of which provides a concise review of measurement issues related to the relevant condition, along with recommendations on which dimensions to measure – and when. The Handbook also includes ready-to-photocopy versions of the most popular, valid, and reliable scales and checklists, along with scoring keys and links to websites containing on-line versions. Moreover, the Handbook describes well known, structured, diagnostic interviews and the specialized training requirements for each. It also includes details of popular psychological tests (such as neuropsychological, personality, and projective tests), along with practical guidelines on when to request psychological testing, how to discuss the case with the assessment consultant and how to integrate information from the final testing report into treatment. Focused and immensely useful, the Handbook of Clinical Rating Scales and Assessment in Psychiatry and Mental Health is an invaluable resource for all clinicians who care for patients with psychiatric disorders.

[Principles and Practice](#) Springer

"Handbook of Marine Natural Products" takes a fresh approach to describing the major themes of research in this rapidly developing field. This two volume reference work begins with a section that provides a taxonomic survey of the secondary metabolites of diverse marine life including microbes, algae, and invertebrates. This is followed by a demonstration of the techniques and strategies employed in modern structure elucidation of complex natural products. The natural roles of marine natural products are then explored in a series of focused chapters which include the topics of symbiosis, anti-predation and antifouling, chemical interactions, and defence against UV stress. Various routes which facilitate the understanding of marine natural product biosynthesis are subsequently explained and these are followed by an extensive set of chapters on the biomedical potential of marine natural products. The latter portion of this section considers the technologies and scientific disciplines necessary for advancing bioactive marine natural product lead compounds into actual pharmaceuticals. The reference work finishes with a selection of chapters describing marine toxins and their impact on public health and seafood resources. Final thoughts presented at the end of the second volume focus on the future of this field of investigation and discovery research. This publication is presented as a reference handbook and general concepts are emphasized and illustrated with numerous interesting examples, graphical information, and a comprehensive index. "Handbook of Marine Natural Products" introduces students who are at advanced undergraduate and entry graduate student levels to this fascinating multidisciplinary field. It is an ideal desk companion for courses focusing on this contemporary area.

[Sources, Stability and Extraction](#) Springer

This handbook covers the most commonly used techniques for measuring plant response to biotic and abiotic stressing factors, including: in vitro and in vivo bioassays; the study of root morphology, photosynthesis (pigment content, net photosynthesis, respiration, fluorescence and thermoluminescence) and water status; thermal imaging; the measurement of oxidative stress markers; flow cytometry for measuring cell cycle and other physiological parameters; the use of microscope techniques for studying plant microtubules; programmed-cell-death; last-generation techniques (metabolomics, proteomics, SAR/QSAR); hybridization methods; isotope techniques for plant and soil studies; and the measurement of detoxification pathways,

volatiles, soil microorganisms, and computational biology.

[Case Management Resource Guide](#) Springer Science & Business Media

Cosmetics are the most widely applied products to the skin and include creams, lotions, gels and sprays. Their formulation, design and manufacturing ranges from large cosmetic houses to small private companies. This book covers the current science in the formulations of cosmetics applied to the skin. It includes basic formulation, skin science, advanced formulation, and cosmetic product development, including both descriptive and mechanistic content with an emphasis on practical aspects. Key Features: Covers cosmetic products/formulation from theory to practice Includes case studies to illustrate real-life formulation development and problem solving Offers a practical, user-friendly approach, relying on the work of recognized experts in the field Provides insights into the future directions in cosmetic product development Presents basic formulation, skin science, advanced formulation and cosmetic product development

[Environmental Fate, Toxicity, and Remediation](#) John Wiley & Sons

During the latter part of the last century and the early years of this century, the microbiology of beer and the brewing process played a central role in the development of modern microbiology. An important advance was Hansen's development of pure culture yeasts for brewery fermentations and the recognition of different species of brewing and wild yeasts. The discovery by Winge of the life cycles of yeasts and the possibilities of hybridization were among the first steps in yeast genetics with subsequent far-reaching consequences. Over the same period the contaminant bacteria of the fermentation industries were also studied, largely influenced by Shimwell's pioneering research and resulting in the improvement of beer quality. Towards the end of the century, the influence of brewing microbiology within the discipline as a whole is far less important, but it retains an essential role in quality assurance in the brewing industry. Brewing microbiology has gained from advances in other aspects of microbiology and has adopted many of the techniques of biotechnology. Of particular relevance are the developments in yeast genetics and strain improvement by recombinant DNA techniques which are rapidly altering the way brewers view the most important microbiological components of the process: yeast and fermentation.

[Automation in Housing](#) Prentice Hall

This paper marks the launch of a new IMF series, Fintech Notes. Building on years of IMF staff work, it will explore pressing topics in the digital economy and be issued periodically. The series will carry work by IMF staff and will seek to provide insight into the intersection of technology and the global economy. The Rise of Digital Money analyses how technology companies are stepping up competition to large banks and credit card companies. Digital forms of money are increasingly in the wallets of consumers as well as in the minds of policymakers. Cash and bank deposits are battling with so-called e-money, electronically stored monetary value denominated in, and pegged to, a currency like the euro or the dollar. This paper identifies the benefits and risks and highlights regulatory issues that are likely to emerge with a broader adoption of stablecoins. The paper also highlights the risks associated with e-money: potential creation of new monopolies; threats to weaker currencies; concerns about consumer protection and financial stability; and the risk of fostering illegal activities, among others.

[Advances in Plant Ecophysiology Techniques](#) CRC Press

#1 bestselling author Stephenie Meyer makes a triumphant return to the world of Twilight with this highly anticipated companion: the iconic love story of Bella and Edward told from the vampire's point of view. When Edward Cullen and Bella Swan met in Twilight, an iconic love story was born. But until now, fans have heard only Bella's side of the story. At last, readers can experience Edward's version in the long-awaited companion novel, Midnight Sun. This unforgettable tale as told through Edward's eyes takes on a new and decidedly dark twist. Meeting Bella is both the most unnerving and intriguing event he has experienced in all his years as a vampire. As we learn more fascinating details about Edward's past and the complexity of his inner thoughts, we understand why this is the defining struggle of his life. How can he justify following his heart if it means leading Bella into danger? In Midnight Sun, Stephenie Meyer transports us back to a world that has captivated millions of readers and brings us an epic novel about the profound pleasures and devastating consequences of immortal love. An instant #1 New York Times BestsellerAn instant #1 USA Today BestsellerAn instant #1 Wall Street Journal BestsellerAn instant #1 IndieBound BestsellerApple Audiobook August Must-Listens Pick "People do not want to just read Meyer's books; they want to climb inside them

and live there." -- Time "A literary phenomenon." -- New York Times

1790 to 1990 from the Twenty-one Decennial Censuses SAGE

The complete history of the world's foremost locomotive builders. With roots stretching back to the turn of the twentieth century, General Electric and Electro-Motive have designed some of the most iconic locomotives in the history of North American railroading. Now, for the first time, acclaimed rail author Brian Solomon's landmark historical accounts of these manufacturers' North American machines (GE Locomotives, 2003, and EMD Locomotives, 2006) are available in a single photo-packed volume. In GE and EMD Locomotives: The Illustrated History, nearly 400 rare photographs (more than 300 of them in color) are accompanied by thorough histories of the two manufacturers, beginning with their earliest efforts in the 1890s and 1930s, respectively. Solomon brings the story up to date with afterwords detailing such recent developments as GE's revolutionary Evolution locomotives and EMD's SD70ACe and SD70M-2. From General Electric's electrical legends - the Pennsylvania Railroad's E44s, Amtrak's E60s, and Milwaukee Road's "Little Joes" - to EMD's mid-century F units, workhorse GP and SD locomotives, and Dash series, all the way through to the rivals' most cutting-edge modern "green" designs, GE and EMD Locomotives: The Illustrated History leaves nothing unexamined in the important histories of these industrial giants and the competition that continues to drive them forward.

Blue Book Publications

In this introductory textbook the author explains the key topics in cryptography. He takes a modern approach, where defining what is meant by "secure" is as important as creating something that achieves that goal, and security definitions are central to the discussion throughout. The author balances a largely non-rigorous style - many proofs are sketched only - with appropriate formality and depth. For example, he uses the terminology of groups and finite fields so that the reader can understand both the latest academic research and "real-world" documents such as application programming interface descriptions and cryptographic standards. The text employs colour to distinguish between public and private information, and all chapters include summaries and suggestions for further reading. This is a suitable textbook for advanced undergraduate and graduate students in computer science, mathematics and engineering, and for self-study by professionals in information security. While the appendix summarizes most of the basic algebra and notation required, it is assumed that the reader has a basic knowledge of discrete mathematics, probability, and elementary calculus.

The Rise of Digital Money Springer Science & Business Media

Phytochemicals are plant derived chemicals which may bestow health benefits when consumed, whether medicinally or as part of a balanced diet. Given that plant foods are a major component of most diets worldwide, it is unsurprising that these foods represent the greatest source of phytochemicals for most people. Yet it is only relatively recently that due recognition has been given to the importance of phytochemicals in maintaining our health. New evidence for the role of specific plant food phytochemicals in protecting against the onset of diseases such as cancers and heart disease is continually being put forward. The increasing awareness of consumers of the link between diet and health has exponentially increased the number of scientific studies into the biological effects of these substances. The Handbook of Plant Food Phytochemicals provides a comprehensive overview of the occurrence, significance and factors affecting phytochemicals in plant foods. A key objective of the book is to critically evaluate these aspects. Evaluation of the evidence for and against the quantifiable health benefits being imparted as expressed in terms of the reduction in the risk of disease conferred through the consumption of foods that are rich in phytochemicals. With world-leading editors and contributors, the Handbook of Plant Food Phytochemicals is an invaluable, cutting-edge resource for food scientists, nutritionists and plant biochemists. It covers the processing techniques aimed at the production of phytochemical-rich foods which can have a role in disease prevention, making it ideal for both the food industry and those who are researching the health benefits of particular foods. Lecturers and advanced students will find it a helpful and readable guide to a constantly expanding subject area.

An Introduction to Health Services Research Springer

Conjoint analysis (CA) and discrete choice experimentation (DCE) are tools used in marketing, economics, transportation, health, tourism, and other areas to develop and modify products, services, policies, and programs, specifically ones that can be described in terms of attributes. A specific combination of attributes is called a concept profile. Building on the authors' significant work in the field, Choice-Based Conjoint Analysis: Models and Designs explores the design of experiment (DOE) issues that occur when constructing concept profiles and shows how to modify commonly used designs for solving DCE and CA problems. The authors provide historical and statistical background and discuss the concepts and inference. The book covers designs appropriate for four classes of DOE problems: (1) attributes in CA and DCE studies are often ordered; (2) studies increasingly are computer-assisted; (3) choice is often influenced by competition; and (4) constraints may exist on attribute levels. Discussion begins with commonly used "generic" designs. The text then presents designs that avoid "dominated" or "dominating" profiles that may occur with ordered attributes and explores the use of orthogonal polynomials to describe relationships between ordered attribute levels and preference. Computer administration entails limited "screen real estate" for presenting concept profiles. The book covers approaches for subsetting attributes and/or levels to "fit" profiles into available "screen real estate." It then discusses strategies for sequential experimentation. Choice also is influenced by the availability of competing alternatives. The book uses availability and cross-effects designs to illustrate the design and analysis of portfolios and shows the relationship between availability effects and interaction effects in

analysis of variance models. The last chapter highlights approaches to experimental design in which constraints are imposed on the levels of attributes. These designs provide the means to untangle the pricing and formulation problems in CA and DCE.

A Directory of Homecare, Rehabilitation, Mental Health and Long Term Care Services Springer

The term "total petroleum hydrocarbons" (TPHs) is used for any mixture of several hundred hydrocarbons found in crude oil, and they represent the sum of volatile petroleum hydrocarbons and extractable petroleum hydrocarbons. The petrol-range organics include hydrocarbons from C6 to C10, while diesel-range organics are C10-C28 hydrocarbons. Environmental pollution by petroleum hydrocarbons is one of the major global concerns, particularly in oil-yielding countries. In fact, there are more than five million potentially contaminated areas worldwide that represent, in general, a lost economic opportunity and a threat to the health and well-being of humans and the environment. Petroleum-contaminated sites constitute almost one-third of the total sites polluted with chemicals around the globe. The land contamination caused by industrialization was recognized as early as the 1960s, but less than a tenth of potentially contaminated lands have been remediated due to the nature of the contamination, cost, technical impracticability, and insufficient land legislation and enforcement. This book is the first single source that provides comprehensive information on the different aspects of TPHs, such as sources and range of products, methods of analysis, fate and bioavailability, ecological implications including impact on human health, potential approaches for bioremediation such as risk-based remediation, and regulatory assessment procedures for TPH-contaminated sites. As such, it is a valuable resource for researchers, graduate students, technicians in the oil industry and remediation practitioners, as well as policy makers.

Wheat Rust Diseases Springer Science & Business Media

This is a primary, comprehensive textbook for people who are considering undertaking a piece of health-related research. It is an accessible companion with the aim of getting the reader to think broadly about all of the issues that need to be considered when embarking on a project. This is a pragmatic book, a step-by-step guide to research which mirrors the structure of a research project, taking you through the thought process for designing and conducting your study from formulating the right research question at idea inception, ascertaining what methodologies and analysis can answer what type of questions, right through to dissemination, all presented in an easy, digestible style. The book is full of case study illustrations and practical tips such as how to work out a research budget and obtaining funding for your project, discussion of what permissions need to be obtained when conducting research with people, and how to involve public and patients. The authors are all experienced researchers and so this book is an accumulation of collective wisdom on common research challenges and issues.

A handbook for the evaluation of One Health An Introduction to Health Services Research A Practical Guide

This volume presents a collection of tools currently used for the characterization of rust, the host plant wheat, and their interactions. This book is divided into five parts: Parts I and II discuss advanced techniques for characterizing rust pathogens in rust surveillance, genotyping, and molecular pathogenicity; Part III describes protocols for genetic analysis of rust resistance; Part IV covers methods on rust resistance gene cloning; and Part V talks about the isolation and screening of bacterial endophytes as biocontrol agents for rust disease management. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and authoritative, Wheat Rust Disease: Methods and Protocols is a valuable resource for both established and novel wheat rust researchers and also the plant science and microbial research community.

Population of States and Counties of the United States Elsevier

In its 114th year, Billboard remains the world's premier weekly music publication and a diverse digital, events, brand, content and data licensing platform. Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music, video, gaming, media, digital and mobile entertainment issues and trends.

Total Petroleum Hydrocarbons International Monetary Fund

This completely revised edition, of the Handbook of Human-Computer Interaction, of which 80% of the content is new, reflects the developments in the field since the publication of the first edition in 1988. The handbook is concerned with principles for design of the Human-Computer Interface, and has both academic and practical purposes. It is intended to summarize the research and provide recommendations for how the information can be used by designers of computer systems. The volume may also be used as a reference for teaching and research. Professionals who are involved in design of HCI will find this volume indispensable, including: computer scientists, cognitive scientists, experimental psychologists, human factors professionals, interface designers, systems engineers, managers and executives working with systems development. Much of the information in the handbook may also be generalized to apply to areas outside the traditional field of HCI.

Complex Medical Engineering Springer

This book presents essays by eminent scholars from across the history of medicine, early science and European history, including those expert on the history of the book. The volume honors Professor Nancy Siraisi and reflects the impact that Siraisi's scholarship has had on a range of fields. Contributions address several

topics ranging from the medical provenance of biblical commentary to the early modern emergence of pathological medicine. Along the way, readers may learn of the purchasing habits of physician-book collectors, the writing of history and the development of natural history. Modeling the interdisciplinary approaches championed by Siraisi, this volume attests to the enduring value of her scholarship while also highlighting critical areas of future research. Those with an interest in the history of science, the history of medicine and all related fields will find this work a stimulating and rewarding read.

Game of Life Cellular Automata CRC Press

In the twenty-first century, applications in medicine and engineering must acquire greater safety and flexibility if they are to yield better products at higher efficiency. Experts from academia, industry, and government research laboratories who have pioneered CME ideas and technologies describe its concept and research approach and discuss related hardware and software, science and technology, and medicine and engineering. This book will be invaluable to scientists, researchers, and graduates in the emerging field of CME.