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Genetic Management of Fragmented Animal and Plant Populations - Richard Frankham 2017
One of the greatest unmet challenges in conservation biology is the genetic management of fragmented populations of threatened animal and plant species. More than a million small, isolated, population fragments of threatened species are likely suffering inbreeding depression and loss of evolutionary potential, resulting in elevated extinction risks. Although these effects can often be reversed by re-establishing gene flow between population fragments, managers very rarely do this. On the contrary, genetic methods are used mainly to document genetic differentiation among populations, with most studies concluding that genetically differentiated populations should be managed separately, thereby isolating them yet further and dooming many to eventual extinction! Many small population fragments are going extinct principally for genetic reasons. Although the rapidly advancing field of molecular genetics is continually providing new tools to measure the extent of population fragmentation and its genetic consequences, adequate guidance on how to use these data for effective conservation is still lacking. This accessible, authoritative text is aimed at senior undergraduate and graduate students interested in conservation biology, conservation genetics, and wildlife management. It will also be of particular relevance to conservation practitioners and natural resource managers, as well as a broader academic audience of conservation biologists and evolutionary ecologists.
Scholarly Electronic Publishing Bibliography 2010 - Charles Wesley Bailey 2011-01-13
The Scholarly Electronic Publishing Bibliography presents over 3,800 selected English-language articles, books, and other textual sources that are useful in understanding scholarly electronic publishing efforts on the Internet. It covers digital copyright, digital libraries, digital preservation, digital rights management, digital repositories, economic issues, electronic books and texts, electronic serials, license agreements, metadata, publisher issues, open access, and other related topics. Most sources have been published from 1990 through 2010. Many references have links to freely available copies of included works. Peter Jacso said in ONLINE (vol. 27, no. 3 2003, pp. 73-76): "SEP is compiled with utter professionalism. It reminds me of the work of the best artisans who know not only every item that leaves their workshops, but each component used to create them--providing the ideal quality control. . . . The selection of items is impeccable. I have yet to find journal articles irrelevant to the scope of the bibliography. SEP could be used as a benchmark in evaluating abstracting/indexing databases that proudly claim to have coverage of electronic publishing, but do not come close to SEP."
Searching for Extraterrestrial Intelligence - H. Paul Shuch 2011-02-14
This book is a collection of essays written by the very scientists and engineers who have led, and continue to lead, the scientific quest known as SETI, the search for extraterrestrial intelligence. Divided into three parts, the first section, ‘The Spirit of SETI Past’, written by the surviving pioneers of this then emerging discipline, reviews the major projects undertaken during the first 50 years of SETI science and the results of that research. In the second section, ‘The Spirit of SETI Present’, the present-day science and technology is discussed in detail, providing the technical background to contemporary SETI instruments, experiments, and analytical techniques, including the processing of the received signals to extract potential alien communications. In the third and final section, ‘The Spirit of SETI Future’, the book looks ahead to the possible directions that SETI will take in the next 50 years, addressing such important topics as interstellar message construction, the risks and assumptions of interstellar communications, when we might make contact, what aliens might look like and what is likely to happen in the aftermath of such a contact.
Pharmaceutical Residues in the Environment - Jolanta Kumirska 2020-11-18
Pharmaceuticals, due to their pseudo-persistence and biological activity as well as their extensive use in human and veterinary medicine, are a class of environmental contaminants that is of emerging concern. In contrast to some conventional pollutants, they are continuously delivered at low levels, which might give rise to toxicity even without high persistence rates. These chemicals are designed to have a specific physiological mode of action and to resist frequently inactivation before exerting their intended therapeutic effect. These features, among others, result in the bioaccumulation of pharmaceuticals which are responsible for toxic effects in aquatic and terrestrial ecosystems. It is extremely important to know how to remove them from the environment and/or how to implement procedures or treatments resulting in their biological inactivation. Although great advances have been made in their detection in aquatic matrices, there remains limited analytical methodologies available for the trace analysis of target and non-target pharmaceuticals in matrices such as soils, sediments, or biota. There are still many gaps in the data on their fate and behavior in the environment as well as on their threats to ecological and human health. This book has included nine current research and three review articles in this field.
Designing with Plastics and Composites: A Handbook - Donald Rosato 2013-04-18
For some time there has been a strong need in the plastic and related industries for a detailed, practical book on designing with plastics and composites (reinforced plastics). This one-source book meets this criterion by clearly explaining all aspects of designing with plastics, as can be seen from the Table of Contents and Index. It provides information on what is ahead as well as today's technology. It explains how to interrelate the process of meeting design performance requirements with that of selecting the proper plastic and manufacturing process to make a product at the lowest cost. This book has been prepared with an awareness that its usefulness will depend greatly upon its simplicity. The overall guiding premise has therefore been to provide all essential information. Each chapter is organized to best present a methodology for designing with plastics and composites. of industrial designers, whether in engineering This book will prove useful to all types or involved in products, molds, dies or equipment, and to people in new-product ventures, research and development, marketing, purchasing, and management who are involved with such different products as appliances, the building industry, autos, boats, electronics, furniture, medical, recreation, space vehicles, and others. In this handbook the basic essentials of the properties and processing behaviors of plastics are presented in a single source intended to be one the user will want to keep within easy reach.
Invasive Species in Forests and Rangelands of the United States - Therese M. Poland 2021-02-01
This open access book describes the serious threat of invasive species to native ecosystems. Invasive species have caused and will continue to cause enormous ecological and economic damage with ever increasing world trade. This multi-disciplinary book, written by over 100 national experts, presents the latest research on a wide range of natural science and social science fields that explore the ecology, impacts, and practical tools for management of invasive species. It covers species of all taxonomic groups from insects and pathogens, to plants, vertebrates, and aquatic organisms that impact a diversity of habitats in forests, rangelands and grasslands of the United States. It is well-illustrated, provides summaries of the most important invasive species and issues impacting all regions of the country, and

includes a comprehensive primary reference list for each topic. This scientific synthesis provides the cultural, economic, scientific and social context for addressing environmental challenges posed by invasive species and will be a valuable resource for scholars, policy makers, natural resource managers and practitioners.

Agricultural Salinity and Drainage - Blaine Hanson 2006-01-01

This handbook has been developed to bridge the gap between the advanced salinity literature and practical information on salinity intended for lay audiences. A user-friendly resource for agricultural consultants and advisors, as well as for local, state and federal agricultural and water agency management staff. Includes thirty-eight chapters covering a broad spectrum of salinity and drainiage topics, written so as to be easily understood by anyone with a general agricultural background. Also includes appendices presented as a shorthand guide to assessing soil salinity and to determining the suitability of a given water for irrigation. Illustrated with 27 tables and 44 figures. One of a series of water management handbooks prepared by the UC Irrigation Program.

Novel Biomarkers in Alzheimer's Disease - Chiara Villa 2021-02-05

Alzheimer's disease (AD) represents the most common form of dementia in the elderly population worldwide. AD is characterized by progressive neurodegeneration that leads to a gradual deterioration of memory and other cognitive functions. Given the global prevalence and impact of AD, there is a critical need to establish biomarkers that can be used to detect AD in individuals before the onset of clinical signs and provide mitigating therapeutics. The aim of this Special Issue is to discuss the current knowledge as well as future perspectives on the role of biomarkers in the screening, diagnosis, treatment and follow-up of AD.

Lake Taihu, China - Boqiang Qin 2008-07-22

2 In China, there are more than 2,759 lakes with surface area greater than 1km , and 2 the total lake area is 91,019km . One-third of these lakes are freshwater lakes, and the majority are situated in the middle and lower reaches of the Changjiang River or in eastern China's coastal areas. These lakes function as drinking water supplies, ood control systems, aquaculture and tourism resources, navigation channels, etc. Recently, many shallow lakes in China have been subject to rapid eutrophication and suffer from algal blooms. This issue has resulted in a shortage of drinking water and in degradation of their ecosystems. The control of eutrophication of shallow lakes is one of the main issues with which the local people and Chinese governments are concerned today. Lake Taihu is the third largest freshwater lake in China, with an area of about 2 2338km and a mean depth of 1. 9m, a typical shallow lake located in the delta of Changjiang River, the most industrialized and urbanized area in China. Its main function is supplying drinking water for the surrounding cities, such as Wuxi, Suzhou, and Shanghai, but tourism, aquaculture, sheries, and navigation are imp- tant as well. However, with economic development and increased population in the lake basin, Lake Taihu has suffered increasingly from serious eutrophication. The environmental issue of Lake Taihu is now a very common one, as most lakes from eastern China are confronted with it.

Digital Image Processing for Medical Applications - Geoff Dougherty 2009

Hands-on text for a first course aimed at end-users, focusing on concepts, practical issues and problem solving.

Advanced Greenhouse Horticulture - Athanasios Koukounaras 2021-03-19

Greenhouse horticulture is one of the most intensive agricultural systems, focusing on the production of high-value products. This book presents current research findings that cover a wide range of new technologies and novel agricultural practices, which are preconditions for successful production in a very competitive global environment.

Computer Literature Bibliography - United States. National Bureau of Standards 1965

Trial and Error - 2015

Noise Reduction Techniques in Electronic Systems - Henry W. Ott 1988-03-23

This updated and expanded version of the very successful first edition offers new chapters on controlling the emission from electronic systems, especially digital systems, and on low-cost techniques for providing electromagnetic compatibility (EMC) for consumer products sold in a competitive market. There is also a new chapter on the susceptibility of electronic systems to electrostatic discharge. There is more material on FCC regulations, digital circuit noise and layout, and digital circuit radiation. Virtually all the material in the first edition has been retained. Contains a new appendix on FCC EMC test procedures.

Meta Math! - Gregory Chaitin 2008-11-26

Gregory Chaitin, one of the world's foremost mathematicians, leads us on a spellbinding journey, illuminating the process by which he arrived at his groundbreaking theory. Chaitin's revolutionary discovery, the Omega number, is an exquisitely complex representation of unknowability in mathematics. His investigations shed light on what we can ultimately know about the universe and the very nature of life. In an infectious and enthusiastic narrative, Chaitin delineates the specific intellectual and intuitive steps he took toward the discovery. He takes us to the very frontiers of scientific thinking, and helps us to appreciate the art—and the sheer beauty—in the science of math.

Current Index to Journals in Education - 1985

Astronomical Observations Made at the Observatory of Cambridge - University of Cambridge. Observatory 1834

Electroacoustic Devices: Microphones and Loudspeakers - Glen Ballou 2012-09-10

This is the definitive reference for microphones and loudspeakers, your one-stop reference covering in great detail all you could want and need to know about electroacoustics devises (microphones and loudspeakers). Covering both the technology and the practical set up and placement this guide explores and bridges the link between experience and the technology, giving you a better understanding of the tools to use and why, leading to greatly improved results.

How Science Works - Stephen H. Jenkins 2004-04-01

One week, red wine is good for the heart. The next week, new reports say it's bad for the health. So which is true? Anyone who's ever read science news with fascination, or who's ever been confounded by conflicting stories will appreciate this book. Taking a look at some true to life contemporary news stories, the author assesses recent studies on topics ranging from vitamin C and caffeine to pollution and cancer. With straight talk and a passion for the whole project of science, he demysifies the cult of the expert and sheds light on the nitty-gritty details of scientific processes. Any scientist loves a challenge, but the biggest challenge of all, observes Jenkins, is shared by scientists and nonscientitsts alike: how to make practical decisions in light of ambiguous evidence. Promising no simple answers, this book does offer excellent food for thought for people pondering that next glass of wine.

Aquatic Dicotyledons of North America - Donald H. Les 2017-09-01

Aquatic Dicotyledons of North America: Ecology, Life History, and Systematics brings together a wealth of information on the natural history, ecology, and systematics of North American aquatic plants. Most books on aquatic plants have a taxonomic focus and are intended primarily for identification. Instead, this book provides a comprehensive overview of the biology of major aquatic species by compiling information from numerous sources that lie scattered among the primary literature, herbarium databases, and other reference materials. Included dicotyledon species are those having an obligate (OBL) wetland status, a designation used in the USACE National Wetland Plant List. Recent phylogenetic analyses are incorporated and rationale is provided for interpreting this information with respect to species relationships. This diverse assemblage of information will be useful to a wide range of interests including academic researchers, wildlife managers, students, and virtually anyone interested in the natural history of aquatic and wetland plants. Although focusing specifically on North America, the cosmopolitan distribution of many aquatic plants should make this an attractive text to people working virtually anywhere outside of the region as well. This book is an essential resource for assisting with wetland delineation.

Trafficking Inside Cells - Nava Segev 2010-05-30

This book covers the past, present and future of the intra-cellular trafficking field, which has made a quantum leap in the last few decades. It details how the field has developed and evolved as well as examines future directions.

Building Automation Control Devices and Applications - A. T. P. ATP Staff 2008-01-01
The Answer Key provides answers to all questions in the text.
Nutrients for Sugar Beet Production - Arthur Philip Draycott 2003
After a summary of world sugar production from beets, the authors cover the plant's need of each macro and micronutrient and effects on growth, yield and crop quality. The soil's supply of nutrients is examined as the basis for use of mineral fertilizers, organic manures and foliar applications. The book provides an up-to-date review of relevant research and the authors draw out practical guidelines so that all concerned with growing the crop can make use of this latest information. The book is destined to become the standard reference on the subject for many years to come. It represents the only significant work in English since Dr. Draycott's earlier title on the same subject, published 30 years ago.
Ecological Methods - Peter A. Henderson 2016-02-03
4th edition of this classic Ecology text Computational methods have largely been replaced by descriptions of the available software Includes procedure information for R software and other freely available software systems Now includes web references for equipment, software and detailed methodologies
Alternative Press Index - 1997

Manual of Psychometry - Joseph Rodes Buchanan 1893

FOA Reference Guide to Fiber Optics - Jim Hayes 2009-09-04
Updated February 2014This book is an guide to the design and installation of outside plant fiber optic cabling networks. It was written as a reference book for instructors and students in classes aimed at FOA CFOT and CFOS/O OSP specialist certification as well as a reference for anyone working in the field. This book offers expansive coverage on the components and processes of fiber optics as used in all outside plant applications and installation practices. Underground, buried, aerial and submarine/underwater installations are covered in detail as is specialized testing for extreme long distance networks. Fiber to the home is given special treatment in an appendix where these new generation networks are described in detail. Complete OSP curriculum materials are available from FOA.
Polymer Photodegradation - Jan F. RABEK 1994-11-30
During the last two decades, the production of polymers and plastics has been increasing rapidly. In spite of developing new polymers and polymeric materials, only 40~60 are used commercially on a large scale. It has been estimated that half of the annual production of polymers is employed outdoors. The photochemical instability of most polymers limits their outdoor application as they are photodegraded quickly over periods from months to a few years. To the despair of technologists and consumers alike, photodegradation and environmental ageing of polymers occur much faster than can be expected from knowledge collected in laboratories. In order to improve polymer photostability there has been a very big effort during the last 30 years to understand the mechanisms involved in photodegradation and environmental ageing. This book represents the author's attempt, based on his 25 years' experience in research on photodegradation and photo stabilization, to collect and generalize a number of available data on the photodegradation of polymers. The space limitation and the tremendous number of publications in the past two decades have made a detailed presentation of all important results and data difficult. The author apologizes to those whose work has not been quoted or widely presented in this book. Because many published results are very often contradictory, it has been difficult to present a fully critical review of collected knowledge, without antagonizing authors. For that reason, all available theories, mechanisms and different suggestions have been presented together, and only practice can evaluate which of them are valid.
World Livestock 2013 - Food and Agriculture Organization of the United Nations 2018-08-22
The World Livestock 2013: Changing disease landscapes looks at the evidence of changing disease dynamics involving livestock and explores three key areas: the Pressure, including drivers and risk factors that contribute to disease emergence, spread and persistence; the State, describing the disease dynamics that result from the Pressure and their subsequent impact; and the Response, required both to adapt and improve the State and to mitigate the Pressure. The report argues that a comprehensive approach for the promotion of global health is needed to face the complexities of the changing disease landscapes, giving greater emphasis on agro-ecological resilience, protection of biodiversity and efficient use of natural resources to ensure safer food supply chains, particularly in areas worst afflicted by poverty and animal diseases. Speeding up response times by early detection and reaction – including improved policies that address disease drivers – is key. Forging a safer, healthier world requires engagement in the One Health approach, which involves all relevant actors and disciplines spanning animal, human and environmental health sectors.
Mixed Methods in Health Sciences Research - Leslie Curry 2014-09-30
Mixed Methods in Health Sciences Research: A Practical Primer, by Leslie Curry and Marcella Nunez-Smith, presents key theories, concepts, and approaches in an accessible way. Packed with illustrations from the health sciences literature, this ready-to-use guidebook shows readers how to design, conduct, review, and use mixed methods research findings. Helpful checklists, figures, tables, templates, and much more give readers examples that will elevate the quality of their research, facilitate communication about their methods, and improve efficiency over the course of their projects. Real-world examples and insights from mixed methods researchers provide unique perspectives on every aspect of mixed methods research. This book successfully pulls together foundational mixed methods principles, synthesizes the knowledge base in the field, and translates it for a health science researcher audience. “The content is highly applicable to real life research teams in the areas of clinical research, health services research, and implementation science, providing sound content and practical advice. The authors have synthesized and pull key concepts from a variety of sources to provide a concise resource.” —Linda M. Herrick, South Dakota State University “Everything from the references, to the topics, checklists, conceptual graphic representations, and organizers, interviews, and resources, all contribute to the content and aid with understanding and/or application. ... It addresses specific MM research as it pertains to health sciences in a way that other texts just do not even attempt.” —Denise L. Winsor, University of Memphis “[This text is] a very pragmatic approach to mixed methods research; excellent resources, tables, and figures [are] provided, along with cases and examples of value to researchers and grant reviewers. Its relevance to practice, education, and research, as well as to potential policy implications, is a strong focus that would make this a valued textbook for any researcher!” ? —Karen Devereaux Melillo, University of Massachusetts Lowell “The text is cutting edge. It leads the way with its focus on team dynamics. [The authors] succeed in making the book relevant and practical. They also articulate a number of key insights in the area of mixed methods that rarely get addressed, such as teams and conflict. Great read with a lot of good, practical information for mixed methods researchers at all levels. The practical approach of this text makes it an innovative and valuable resource.” —John G. Schumacher, University of Maryland
Desert Puma - Kenneth A. Logan 2001-08-01
Scientists and conservationists are beginning to understand the importance of top carnivores to the health and integrity of fully functioning ecosystems. As burgeoning human populations continue to impinge on natural landscapes, the need for understanding carnivore populations and how we affect them is becoming increasingly acute.Desert Puma represents one of the most detailed assessments ever produced of the biology and ecology of a top carnivore. The husband-and-wife team of Kenneth Logan and Linda Sweanor set forth extensive data gathered from their ten-year field study of pumas in the Chihuahua Desert of New Mexico, also drawing on other reliable scientific data gathered throughout the puma's geographic range. Chapters examine: the evolutionary and modern history of pumas, their taxonomy, and physical description a detailed description and history of the study area in the Chihuahua Desert field techniques that were used in the research puma population dynamics and life history strategies the implications of puma behavior and social organization the relationships of pumas and their preyThe authors provide important new information about both the biology of pumas and their evolutionary ecology -- not only what pumas do, but why they do it. Logan and Sweanor explain how an understanding of puma evolutionary ecology can, and must, inform long-term conservation strategies. They end the book with their ideas regarding strategies for puma management and conservation, along with a consideration of the future of pumas and humans. Desert Puma makes a significant and original contribution to the science not only of pumas in desert ecosystems but of the role of top predators in all environments. It is an essential contribution to the bookshelf of any wildlife biologist or conservationist involved in large-scale land management or wildlife management.

Prodromal Parkinson’s Disease - David Crosiers 2021-02-17

Approaches in Bioremediation - Ram Prasad 2018-12-08
Bioremediation refers to the clean-up of pollution in soil, groundwater, surface water, and air using typically microbiological processes. It uses naturally occurring bacteria and fungi or plants to degrade, transform or detoxify hazardous substances to human health or the environment. For bioremediation to be effective, microorganisms must enzymatically attack the pollutants and convert them to harmless products. As bioremediation can be effective only where environmental conditions permit microbial growth and action, its application often involves the management of ecological factors to allow microbial growth and degradation to continue at a faster rate. Like other technologies, bioremediation has its limitations. Some contaminants, such as chlorinated organic or high aromatic hydrocarbons, are resistant to microbial attack. They are degraded either gradually or not at all, hence, it is not easy to envisage the rates of clean-up for bioremediation implementation. Bioremediation represents a field of great expansion due to the important development of new technologies. Among them, several decades on metagenomics expansion has led to the detection of autochthonous microbiota that plays a key role during transformation. Transcriptomic guides us to know the expression of key genes and proteomics allow the characterization of proteins that conduct specific reactions. In this book we show specific technologies applied in bioremediation of main interest for research in the field, with special attention on fungi, which have been poorly studied microorganisms. Finally, new approaches in the field, such as CRISPR-CAS9, are also discussed. Lastly, it introduces management strategies, such as bioremediation application for managing affected environment and bioremediation approaches. Examples of successful bioremediation applications are illustrated in radionuclide entrapment and retardation, soil stabilization and remediation of polycyclic aromatic hydrocarbons, phenols, plastics or fluorinated compounds. Other emerging bioremediation methods include electro bioremediation, microbe-availed phytoremediation, genetic recombinant technologies in enhancing plants in accumulation of inorganic metals, and metalloids as well as degradation of organic pollutants, protein-metabolic engineering to increase bioremediation efficiency, including nanotechnology applications are also discussed.
Handbook of Solid Phase Microextraction - Janusz Pawliszyn 2011-11-29
The relatively new technique of solid phase microextraction (SPME) is an important tool to prepare samples both in the lab and on-site. SPME is a "green" technology because it eliminates organic solvents from analytical laboratory and can be used in environmental, food and fragrance, and forensic and drug analysis. This handbook offers a thorough background of the theory and practical implementation of SPME. SPME protocols are presented outlining each stage of the method and providing useful tips and potential pitfalls. In addition, devices and fiber coatings, automated SPME systems, SPME method development, and In Vivo applications are discussed. This handbook is essential for its discussion of the latest SPME developments as well as its in depth information on the history, theory, and practical application of the method. Practical application of Solid Phase Microextraction methods including detailed steps Provides history of extraction methods to better understand the process Suitable for all levels, from beginning student to experienced practitioner
Yeasts in Natural Ecosystems: Ecology - Pietro Buzzini 2017-10-05
This book presents an up-to-date review of the ecology of yeast communities in natural ecosystems. It focuses on their biological interactions, including mutualism, parasitism, commensalism and antagonistic interactions, and is closely connected with the volume Yeasts in Natural Ecosystems: Diversity by the same editors. Yeasts are the smallest eukaryotic organisms successfully growing under a wide range of environmental conditions. They constantly modify the environment through their own metabolic activities. Although yeasts are among the earlier colonizers of nutrient-rich substrates, their role in ecosystem processes is not limited to the consumption and transformation of simple sugars. They also engage in close relationships with animals, plants and other fungi in the environment as mutualists, competitors, parasites and pathogens. This book reviews the diversity of biological interactions and roles of yeasts in ecosystems and summarises recent concepts and tools developed in community ecology. All of the chapters were written by leading international yeast research experts, and will appeal to researchers and advanced students in the field of microbial ecology.
Practical Electronics Handbook - Ian Sinclair 2007-01-11
Ian Sinclair's Practical Electronics Handbook combines a wealth useful day-to-day electronics information, concise explanations and practical guidance in this essential companion to anyone involved in electronics design and construction. The compact collection of key data, fundamental principles and circuit design basics provides an ideal reference for a wide range of students, enthusiasts, technicians and practitioners of electronics who have progressed beyond the basics. The sixth edition is updated throughout with new material on microcontrollers and computer assistance, and a new chapter on digital signal processing · Invaluable handbook and reference for hobbyists, students and technicians · Essential day-to-day electronics information, clear explanations and practical guidance in one compact volume · Assumes some previous electronics knowledge but coverage to interest beginners and professionals alike
James Clerk Maxwell - Raymond Flood 2014-01-09
James Clerk Maxwell (1831-1879) had a relatively brief, but remarkable life, lived in his beloved rural home of Glenlair, and variously in Edinburgh, Aberdeen, London and Cambridge. His scholarship also ranged wide - covering all the major aspects of Victorian natural philosophy. He was one of the most important mathematical physicists of all time, coming only after Newton and Einstein. In scientific terms his immortality is enshrined in electromagnetism and Maxwell's equations, but as this book shows, there was much more to Maxwell than electromagnetism, both in terms of his science and his wider life. Maxwell's life and contributions to science are so rich that they demand the expertise of a range of academics - physicists, mathematicians, and historians of science and literature - to do him justice. The various chapters will enable Maxwell to be seen from a range of perspectives. Chapters 1 to 4 deal with wider aspects of his life in time and place, at Aberdeen, King's College London and the Cavendish Laboratory. Chapters 5 to 12 go on to look in more detail at his wide ranging contributions to science: optics and colour, the dynamics of the rings of Saturn, kinetic theory, thermodynamics, electricity, magnetism and electromagnetism with the concluding chapters on Maxwell's poetry and Christian faith.
A Dictionary of English Synonymes and Synonymous or Parallel Expressions Designed as a Practical Guide to Aptness and Variety of Phraseology - Richard Soule 1876

Sherman Genealogy Including Families of Essex, Suffolk and Norfolk, England - Thomas Townsend Sherman 1920

Essentials of Audiology, 2nd Ed - 2001