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**Indian Books in Print Temporary Anchorage Devices in Orthodontics E-Book Elsevier Health Sciences** Achieve excellent patient outcomes with minimally invasive, cost-effective procedures! **Temporary Anchorage Devices in Orthodontics, 2nd Edition** covers everything you need to know to begin offering TADs in your practice. More than 1,500 full-color photos and illustrations guide you through the entire treatment process, from diagnosis and planning to biomechanics, implants and anchorage devices, and management of problems. Detailed case reports provide insight into the treatment of specific conditions. From a team of expert contributors led by Ravindra Nanda, this book shows the temporary anchorage techniques that will take your orthodontic skills to the next level. Over 1,500 full-color clinical photographs and line drawings depict important concepts and techniques, and show treatment progress from beginning to end. Case Report boxes walk you through the treatment of specific conditions, from initial patient visit to final outcome, with clinical photos showing the changes that occur at each stage of treatment. Unique coverage of temporary anchorage devices is provided by this complete, comprehensive, one-of-a-kind reference, as the use of TADs is becoming more and more popular within the field of orthodontics. Expert contributors from all over the world share their experience and current knowledge of each topic, ensuring that you have accurate, up-to-date, and clinically relevant information. Logical organization begins with a discussion of basic orthodontic principles and moves on to diagnosis and treatment planning, implants and anchorage devices, and management of problems. **NEW Anchorage of TADs Using Aligner Orthodontics Treatment for Lower Molars Distalization** chapter helps you incorporate TADs to clear aligner therapy. **NEW Expert Consult** website provides an online version of the book, allowing you to search the entire book electronically. **NEW!** Updated clinical photos illustrate the advances that have been made since publication of the first edition. **NEW!** Updated content reflects the latest research and advances in this evolving area. **International Books in Print How Tobacco Smoke Causes Disease The Biology and Behavioral Basis for Smoking-attributable Disease : a Report of the Surgeon General U.S. Government Printing Office** This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products. **Nonextensive Entropy Interdisciplinary Applications** A great variety of complex phenomena in many scientific fields exhibit power-law behaviour, reflecting a hierarchical or fractal structure. Many of these phenomena seem to be susceptible to description using approaches drawn from thermodynamics or statistical mechanics, particularly approaches involving the maximization of entropy. During recent years a good deal of study has been devoted to a nonextensive generalizations of entropy and of Boltzmann-Gibbs statistical mechanics and standard laws in a natural way. The book addresses the interdisciplinary applications of these ideas, and also on various phenomena that could possibly be quantitatively describable in terms of these ideas. **Orthodontics - E-Book Current Principles and Techniques Elsevier Health Sciences** Comprehensive, cutting-edge content addresses contemporary orthodontic practice! **Orthodontics: Current Principles and Techniques, 7th Edition** provides an evidence-based approach to orthodontic diagnosis, treatment planning, and clinical techniques, including esthetics, genetics, temporary anchorage devices, aligners, technology-assisted biomechanics, and much more. New to this edition are seven chapters, covering topics like AI, maxillary expansion in adults, Class II correctors, and autotransplantation. Newly authored chapters on orthognathic surgery and the craniofacial team, the periodontal-orthodontic interface, interdisciplinary treatment, and accelerated tooth movement, among others, address current perspectives. The 7th edition comes with access to an enhanced eBook version, which includes videos and additional visuals to show concepts difficult to explain with words alone. Readers can also find additional, online-only chapters and a fully searchable version of the text. Respected editors Lee Graber, Katherine Vig, and Greg Huang are joined by new editor Pádhraig Fleming, along with expert contributors from around the world. This text provides the most current and comprehensive collection of orthodontic knowledge, making it the go-to book for orthodontic residents and practitioners! Comprehensive coverage provides a one-stop resource for the field of orthodontics,

including foundational theory and the latest on the materials and techniques used in today's practice. Experienced, renowned editors lead a team of expert, international contributors to provide the most authoritative clinical practice and supporting science from the best and brightest in the industry. More than 3,400 images include a mixture of radiographs, full-color clinical photos, and anatomic or schematic line drawings, showing examples of treatment, techniques, and outcomes. Detailed, illustrated case studies show the decision-making process, highlighting the consequences of various treatment techniques over time. Extensive references make it easy to look up the latest in orthodontic research and evidence-based information, and all references also appear online. Enhanced ebook, included with every print purchase, features a fully searchable version of the text and bonus online-only chapters, instructional videos, and more. **NEW!** Seven chapters cover topics such as AI, maxillary expansion in adults, Class II correctors, and autotransplantation. Newly authored chapters on aligners, orthognathic surgery, the periodontal-orthodontic interface, interdisciplinary and computer-assisted treatment, temporary anchorage devices, and accelerated tooth movement, among others, address current perspectives. **UPDATED!** Relevant literature and evidence-based practices are featured throughout the text. **NEW!** Additional photos and illustrations visually reinforce key concepts and procedures. **Murray & Nadel's Textbook of Respiratory Medicine E-Book Elsevier Health Sciences** Ideal for fellows and practicing pulmonologists who need an authoritative, comprehensive reference on all aspects of pulmonary medicine, Murray and Nadel's Textbook of Respiratory Medicine offers the most definitive content on basic science, diagnosis, evaluation and treatment of the full spectrum of respiratory diseases. Full-color design enhances teaching points and highlights challenging concepts. Understand clinical applications and the scientific principles of respiratory medicine. Detailed explanations of each disease entity allow you to work through differential diagnoses. Key Points and Key Reading sections highlight the most useful references and resources for each chapter. An expanded sleep section now covers four chapters and includes control of breathing, consequences of sleep disruption, as well as obstructive and central apnea. New chapters in the Critical Care section cover Noninvasive Ventilation (NIV) and Extracorporeal Support of Gas Exchange (ECMO). New chapters focusing on diagnostic techniques now include Invasive Diagnostic Imaging and Image-Guided Interventions and Positron Emission Tomography, and a new chapter on Therapeutic Bronchoscopy highlights the interventional role of pulmonologists. **Nuclear and Particle Physics An Introduction John Wiley & Sons** An accessible introduction to nuclear and particle physics with equal coverage of both topics, this text covers all the standard topics in particle and nuclear physics thoroughly and provides a few extras, including chapters on experimental methods; applications of nuclear physics including fission, fusion and biomedical applications; and unsolved problems for the future. It includes basic concepts and theory combined with current and future applications. An excellent resource for physics and astronomy undergraduates in higher-level courses, this text also serves well as a general reference for graduate studies. **A Textbook of Clinical Pharmacology Oxford Textbook of Rheumatology Oxford University Press** A strong clinical emphasis is present throughout this volume from the first section of commonly presenting problems through to the section addressing problems shared with a range of other clinical sub-specialties. **Preventing Tobacco Use Among Youth and Young Adults A Report of the Surgeon General U.S. Government Printing Office** **NOTE: NO FURTHER DISCOUNT FOR THIS PRINT PRODUCT -- OVERSTOCK SALE --** Significantly reduced list price This Surgeon General's Report details the causes and the consequences of tobacco use among youth and young adults by focusing on the social, environmental, advertising, and marketing influences that encourage youth and young adults to initiate and sustain tobacco use. This is the first time tobacco data on young adults as a discrete population have been explored in detail. The report also highlights successful strategies to prevent young people from using tobacco. This three volume set includes the following items: A booklet containing highlights from the 2012 Surgeon General's report on tobacco use among youth and teens ages 12 through 17 and young adults ages 18 through 26. This booklet provides an overview of tobacco use within this targeted age group. The second booklet is an Executive Summary with two messages. One message from for Kathleen Sebelius, Secretary of Health and Human Services and a second message from Howard Koh, Assistant Secretary of Health and contains a brief introduction to the set and summary and conclusions for each chapter contained in the final volume. The final volume contains over 800 pages of documentation, interwoven with text and data addressing the adverse health consequences of tobacco use by children and young adults. It includes research on a variety of topics, including nicotine addiction, trends in cigarette smoking among young adults, trends in smokeless tobacco use and cigar smoking over time, genetic factors in tobacco use among youth, and mass media influence on smoking to this age group to name a few. This third volume is rich with table data research findings to support the Surgeon General's concerns with America's use and tobacco. If you would like to find similar products, please check out our Alcoholism, Smoking, and Substance Abuse resources collection at this link: <https://bookstore.gpo.gov/catalog/health-benefits/alcoholism-smoking-substance-abuse> " **The ESC Textbook of Cardiovascular Medicine Oxford University Press** This benchmark textbook for trainees and cardiologists throughout Europe and elsewhere is now fully revised and updated. Mapped closely to the European Society of Cardiology Core Curriculum, supplemented with videos and downloadable images and accompanied by a fully searchable online version with linked full reference listings. Enhanced with EBAC accredited CME self-assessment. **Phytoestrogens and Health The American Oil Chemists Society** **An Introduction to Mechanics Cambridge University Press** This second edition is ideal for classical mechanics courses for first- and second-year undergraduates with foundation skills in mathematics. **The Chemistry of Inorganic Biomaterials Royal Society of Chemistry** Biomaterials offer the potential to restore and supplement the function of tissues and organs following injury or disease. The use of inorganic materials in the clinic to date has been widespread, in the form of metallic joint replacements and ceramic dental and bone implants. Exciting new medical applications continue to emerge, enabled by innovative materials for neural interfaces and as anti-fouling agents. **The Chemistry of Inorganic Biomaterials** overviews the underlying chemistry behind the most common and

cutting-edge inorganic materials in current use, or approaching use, in vivo. Framed from the context of the overarching material class/application, it provides a balanced and critical overview of the field by bringing together experts in both the fundamental inorganic and material chemistry, as well as key clinical considerations for biomedical applications. Written in an accessible style, this book will be of interest to advanced undergraduates, postgraduates and researchers in biomaterials, inorganic materials and materials chemistry. **Kendig's Disorders of the Respiratory Tract in Children E-Book** *Elsevier Health Sciences* Now in a fully updated 9th Edition, **Kendig's Disorders of the Respiratory Tract in Children**, by Drs. Robert Wilmott, Andrew Bush, Robin Deterding, and Felix Ratjen, continues to provide authoritative, evidence-based information to residents, fellows, and practitioners in this wide-ranging specialty. Bringing key knowledge from global experts together in one easy-to-understand volume, it covers everything from the latest basic science and its relevance to today's clinical issues, to improving patient outcomes for the common and rare respiratory problems found in newborns and children worldwide. Uses succinct, straightforward text, numerous tables and figures, summaries at the end of each chapter, and more than 500 full-color images to convey key information in an easy-to-digest manner. Contains new chapters reflecting expanding knowledge on the respiratory complications of Down syndrome and other genetic disorders, modern molecular therapies for cystic fibrosis and asthma, and pulmonary embolism and thromboembolic disease. Features a new templated format with more descriptive headings and bulleted text for quick reference and navigation. Covers today's key issues, including the genetic basis of respiratory disease, new and emerging respiratory infections, interstitial lung diseases in infants and young children, technology and diagnostic techniques for pulmonary function tests, emerging lung infections, and new therapies for cystic fibrosis and asthma. Provides up-to-date instruction on important procedures, such as bronchoscopy and pulmonary function testing. Highlights the knowledge and expertise of three new editors, as well as more than 100 world authorities in the fields of pediatrics, pulmonology, neurology, microbiology, cardiology, physiology, diagnostic imaging, critical care, otolaryngology, allergy, and surgery. **Polymeric Materials Surfaces, Interfaces and Bioapplications** *MDPI* This book collects the articles published in the Special Issue "Polymeric Materials: Surfaces, Interfaces and Bioapplications". It shows the advances in polymeric materials, which have tremendous applications in agricultural films, food packaging, dental restoration, antimicrobial systems, and tissue engineering. These polymeric materials are presented as films, coatings, particles, fibers, hydrogels, or networks. The potential to modify and modulate their surfaces or their content by different techniques, such as click chemistry, ozonation, breath figures, wrinkle formation, or electrospray, are also explained, taking into account the relationship between the structure and properties in the final application. Moreover, new trends in the development of such materials are presented, using more environmental friendly and safe methods, which, at the same time, have a high impact on our society. **The ICU Book** *Lippincott Williams & Wilkins* This best-selling resource provides a general overview and basic information for all adult intensive care units. The material is presented in a brief and quick-access format which allows for topic and exam review. It provides enough detailed and specific information to address most all questions and problems that arise in the ICU. Emphasis on fundamental principles in the text should prove useful for patient care outside the ICU as well. New chapters in this edition include hyperthermia and hypothermia syndromes; infection control in the ICU; and severe airflow obstruction. Sections have been reorganized and consolidated when appropriate to reinforce concepts. **Data Mining: Concepts and Techniques** *Elsevier* **Data Mining: Concepts and Techniques** provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects **Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields** Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data **Mathematical Physics** *S. Chand Publishing* **Mathematical Physics** **Adipose Tissue in Health and Disease** *John Wiley & Sons* This timely and most comprehensive reference available on the topic covers all the different aspects vital in the fight against the global obesity epidemic. Following a look at adipose tissue development and morphology, the authors go on to examine its metabolic and endocrine functions and its role in disease. The final section deals with comparative and evolutionary aspects of the tissue. The result is an essential resource for cell and molecular biologists, physiologists, biochemists, pharmacologists, and those working in the pharmaceutical industry. **Genetic Diseases of the Eye** *OUP USA* This book takes a clinical approach to the patient with a genetic disease that affects the eye. The chapters on particular types of diseases follow the same organizational format, covering history, pathogenesis and etiology, epidemiology, classification, clinical manifestations and diagnosis, and treatment. The recent progress achieved in the molecular genetics of eye disease is fully reflected throughout the book. It is written by leading experts in the field and provides clinical, molecular genetic and management information on common and rare diseases. The chapters are heavily illustrated and provide a good Atlas for the practicing ophthalmologist or geneticist. **Religion As a**

**Social Determinant of Public Health** *Oxford University Press* Leading scholars in the social sciences, public health and religion examine the embodied sacred practices of the world's religions, the history of alignment and tension between religious and public health institutions and the role of religious institutions in health and development efforts around the globe.

**Conference Proceedings of ICDLAIR2019** *Springer Nature* This proceedings book includes the results from the International Conference on Deep Learning, Artificial Intelligence and Robotics, held in Malaviya National Institute of Technology, Jawahar Lal Nehru Marg, Malaviya Nagar, Jaipur, Rajasthan, 302017. The scope of this conference includes all subareas of AI, with broad coverage of traditional topics like robotics, statistical learning and deep learning techniques. However, the organizing committee expressly encouraged work on the applications of DL and AI in the important fields of computer/electronics/electrical/mechanical/chemical/textile engineering, health care and agriculture, business and social media and other relevant domains. The conference welcomed papers on the following (but not limited to) research topics: · Deep Learning: Applications of deep learning in various engineering streams, neural information processing systems, training schemes, GPU computation and paradigms, human-computer interaction, genetic algorithm, reinforcement learning, natural language processing, social computing, user customization, embedded computation, automotive design and bioinformatics · Artificial Intelligence: Automatic control, natural language processing, data mining and machine learning tools, fuzzy logic, heuristic optimization techniques (membrane-based separation, wastewater treatment, process control, etc.) and soft computing · Robotics: Automation and advanced control-based applications in engineering, neural networks on low powered devices, human-robot interaction and communication, cognitive, developmental and evolutionary robotics, fault diagnosis, virtual reality, space and underwater robotics, simulation and modelling, bio-inspired robotics, cable robots, cognitive robotics, collaborative robotics, collective and social robots and humanoid robots It was a collaborative platform for academic experts, researchers and corporate professionals for interacting their research in various domain of engineering like robotics, data acquisition, human-computer interaction, genetic algorithm, sentiment analysis as well as usage of AI and advanced computation in various industrial challenges based applications such as user customization, augmented reality, voice assistants, reactor design, product formulation/synthesis, embedded system design, membrane-based separation for protecting environment along with wastewater treatment, rheological properties estimation for Newtonian and non-Newtonian fluids used in micro-processing industries and fault detection.

**The Perfect Slime** *IWA Publishing* The Perfect Slime presents the latest state of knowledge and all aspects of the Extracellular Polymeric Substances, (EPS) matrix - from the ecological and health to the antifouling perspectives. The book brings together all the current material in order to expand our understanding of the functions, properties and characteristics of the matrix as well as the possibilities to strengthen or weaken it. The EPS matrix represents the immediate environment in which biofilm organisms live. From their point of view, this matrix has paramount advantages. It allows them to stay together for extended periods and form synergistic microconsortia, it retains extracellular enzymes and turns the matrix into an external digestion system and it is a universal recycling yard, it protects them against desiccation, it allows for intense communication and represents a huge genetic archive. They can remodel their matrix, break free and eventually, they can use it as a nutrient source. The EPS matrix can be considered as one of the emergent properties of biofilms and are a major reason for the success of this form of life. Nevertheless, they have been termed the “black matter of biofilms” for good reasons. First of all: the isolation methods define the results. In most cases, only water soluble EPS components are investigated; insoluble ones such as cellulose or amyloids are much less included. In particular in environmental biofilms with many species, it is difficult to impossible isolate, separate the various EPS molecules they are encased in and to define which species produced which EPS. The regulation and the factors which trigger or inhibit EPS production are still very poorly understood. Furthermore: bacteria are not the only microorganisms to produce EPS. Archaea, Fungi and algae can also form EPS. This book investigates the questions, What is their composition, function, dynamics and regulation? What do they all have in common?

**Risk Factors for Cerebrovascular Disease and Stroke** *Oxford University Press* Risk Factors for Cerebrovascular Disease and Stroke address the relationship of a wide variety of vascular risk factors in the spectrum of cerebrovascular diseases. An international group of professionals the forefront of research and education, provide their expertise about environmental and genetic determinants for cerebrovascular disease and stroke. The authors aim to provide information on developments of genetic, environmental and lifestyle-related risk factors of various subtypes of stroke, and MRI-markers of cerebrovascular disease. One in two men, and one in three women after the age of 40, will develop a stroke in their lifetime. The burden of cerebrovascular disease extends far beyond that of acute clinical events such as stroke, with "covert" vascular injury on brain MRI being highly prevalent in older community-dwelling persons. Therefore, improving our understanding of the risk factors for stroke and cerebrovascular disease is of paramount importance for improving prevention strategies. Secular trends in stroke epidemiology, risk factors, and intermediate markers (including carotid ultrasound, brain MRI and circulating biomarkers) are presented. Cutting edge information on genetic, environmental and lifestyle-related risk factors of various subtypes of stroke and MRI-markers of cerebrovascular diseases are displayed. This important book is an essential reference to physicians interested in more effective primary prevention of stroke.

**Personalized Hip and Knee Joint Replacement** *Springer Nature* This open access book describes and illustrates the surgical techniques, implants, and technologies used for the purpose of personalized implantation of hip and knee components. This new and flourishing treatment philosophy offers important benefits over conventional systematic techniques, including component positioning appropriate to individual anatomy, improved surgical reproducibility and prosthetic performance, and a reduction in complications. The techniques described in the book aim to reproduce patients' native anatomy and physiological joint laxity, thereby improving the prosthetic hip/knee kinematics and functional

outcomes in the quest of the forgotten joint. They include kinematically aligned total knee/total hip arthroplasty, partial knee replacement, and hip resurfacing. The relevance of available and emerging technological tools for these personalized approaches is also explained, with coverage of, for example, robotics, computer-assisted surgery, and augmented reality. Contributions from surgeons who are considered world leaders in diverse fields of this novel surgical philosophy make this open access book will invaluable to a wide readership, from trainees at all levels to consultants practicing lower limb surgery

**The Cambridge Handbook of Sociopragmatics** *Cambridge University Press* Sociopragmatics is a rapidly growing field and this is the first ever handbook dedicated to this exciting area of study. Bringing together an international team of leading editors and contributors, it provides a comprehensive, cutting-edge overview of the key concepts, topics, settings and methodologies involved in sociopragmatic research. The chapters are organised in a systematic fashion, and span a wide range of theoretical research on how language communicates multiple meanings in context, how it influences our daily interactions and relationships with others, and how it helps construct our social worlds. Providing insight into a fascinating array of phenomena and novel research directions, the Handbook is not only relevant to experts of pragmatics but to any reader with an interest in language and its use in different contexts, including researchers in sociology, anthropology and communication, and students of applied linguistics and related areas, as well as professional practitioners in communication research.

**Pediatric and Neonatal Mechanical Ventilation From Basics to Clinical Practice** *Springer* Written by outstanding authorities from all over the world, this comprehensive new textbook on pediatric and neonatal ventilation puts the focus on the effective delivery of respiratory support to children, infants and newborns. In the early chapters, developmental issues concerning the respiratory system are considered, physiological and mechanical principles are introduced and airway management and conventional and alternative ventilation techniques are discussed. Thereafter, the rational use of mechanical ventilation in various pediatric and neonatal pathologies is explained, with the emphasis on a practical step-by-step approach. Respiratory monitoring and safety issues in ventilated patients are considered in detail, and many other topics of interest to the bedside clinician are covered, including the ethics of withdrawal of respiratory support and educational issues. Throughout, the text is complemented by numerous illustrations and key information is clearly summarized in tables and lists.

**Environmental Biosensors** *BoD - Books on Demand* This book is a collection of contributions from leading specialists on the topic of biosensors for health, environment and biosecurity. It is divided into three sections with headings of current trends and developments; materials design and developments; and detection and monitoring. In the section on current trends and developments, topics such as biosensor applications for environmental and water monitoring, agro-industry applications, and trends in the detection of nerve agents and pesticides are discussed. The section on materials design and developments deals with topics on new materials for biosensor construction, polymer-based microsystems, silicon and silicon-related surfaces for biosensor applications, including hybrid film biosensor systems. Finally, in the detection and monitoring section, the specific topics covered deal with enzyme-based biosensors for phenol detection, ultra-sensitive fluorescence sensors, the determination of biochemical oxygen demand, and sensors for pharmaceutical and environmental analysis.

**Hip Biomechanics** *Springer Science & Business Media* This volume is the arranged monograph based on the Hip Biomechanics Symposium held on November 1992 in Fukui, Japan. It consists of six major sections: loading, gait analysis, total hip arthroplasty, osteotomies, motion analysis, and stem designs for stability. The most important aim of the volume is to overview the current research outcomes in the biomechanical approaches to adult hip diseases. Each of these sections brings together many of the leading researchers in this field. The information found here will be of benefit to orthopedic surgeons and researchers in the related areas.

**Microorganisms in the Deterioration and Preservation of Cultural Heritage** *Springer Nature* This open access book offers a comprehensive overview of the role and potential of microorganisms in the degradation and preservation of cultural materials (e.g. stone, metals, graphic documents, textiles, paintings, glass, etc.). Microorganisms are a major cause of deterioration in cultural artefacts, both in the case of outdoor monuments and archaeological finds. This book covers the microorganisms involved in biodeterioration and control methods used to reduce their impact on cultural artefacts. Additionally, the reader will learn more about how microorganisms can be used for the preservation and protection of cultural artefacts through bio-based and eco-friendly materials. New avenues for developing methods and materials for the conservation of cultural artefacts are discussed, together with concrete advances in terms of sustainability, effectiveness and toxicity, making the book essential reading for anyone interested in microbiology and the preservation of cultural heritage.

**Plant Breeding Reviews** *John Wiley & Sons* Plant Breeding Reviews presents state-of-the-art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods. Many of the crops widely grown today stem from a very narrow genetic base; understanding and preserving crop genetic resources is vital to the security of food systems worldwide. The emphasis of the series is on methodology, a fundamental understanding of crop genetics, and applications to major crops.

**Oxford Textbook of Zoonoses Biology, Clinical Practice, and Public Health Control** *OUP Oxford* Divided into three sections along the lines of bacteriology, parasitology and virology, this book comprehensively provides a systematic, cross disciplinary approach to the science and control of all zoonoses, written by international specialists in human and veterinary medicine.

**The Soils of Nepal** *Springer* This book publishes consolidated information on the soils of Nepal from all possible sources. The Survey Department, Government of Nepal, conducted two national scale soil survey projects to classify soils of Nepal (Land Resource Mapping Project ended in 1985, and National Land Use Planning Project ended in 2021). Both projects adopted the United States Department of Agriculture system of soil classification. Besides, National Soil Science Research Center (previously known as Soil Science Division) of Nepal Agricultural Research Council and Soil Management Directorate, Department of Agriculture, also worked on soils of Nepal. To date, the information on the soils of Nepal is not published in well-

documented form but has been reported widely as gray literature (project report or government report) or peer-review articles. 'The Soils of Nepal' is a part of 'World Soils Book Series' which constitutes twelve chapters—covering broad aspects such as soil research history, climate, geology, soil classification and mapping, and soil fertility. Furthermore, information about soil properties and relation between soil constituents of the dominant soil types of Nepal and their scope of use in the context of land use are described. This book also tries to simplify the intricate relationship among soil, culture, and people. Each chapter contains a comprehensive, richly illustrated, and up-to-date overview of the soils of Nepal. We believe it fulfils a quest for a global audience including students, educators, extension workers, and soil scientists, who are interested to know the young soils of Nepal.

**Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures** *CRC Press* Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures contains the plenary lectures and papers presented at the 11th International Conference on STRUCTURAL SAFETY AND RELIABILITY (ICOSSAR2013, New York, NY, USA, 16-20 June 2013), and covers major aspects of safety, reliability, risk and life-cycle performance of str

**Nutrition and Eye Health** *MDPI* Blindness and visual impairment impact significantly on an individual's physical and mental well-being. Loss of vision is a global health problem, with approximately 250 million of the world's population currently living with vision loss, of which 36 million are classified as blind. Visual impairment is more frequent in the elderly, with cataract and age-related macular degeneration (AMD) accounting for over 50% of cases globally. Oxidative stress has been strongly implicated in the pathogenesis of both conditions, and consequently the role of nutritional factors, in particular carotenoids and micronutrient antioxidants, have been investigated as possible preventative or therapeutic strategies. Dry eye syndrome (DES) is one of the most common ophthalmic conditions in the world. DES occurs where the eye does not produce enough tears and/or the tears evaporate too quickly leading to discomfort and varying degrees of visual disturbance. There has recently been a great deal of interest in the potential for oral or topical supplementation with essential fatty acids (EFAs), specifically omega-3 and omega-6 fatty acids, as an adjunct to conventional treatments for DES. The objective of this Special Issue on 'Nutrition and Eye Health' is to publish papers describing the role of nutrition in maintaining eye health and the use of nutritional interventions to prevent or treat ocular disease. A particular (but not exclusive) emphasis will be on papers (reviews and/or clinical or experimental studies) relating to cataract, AMD and DES.

**Ketogenic Diet and Metabolic Therapies Expanded Roles in Health and Disease** *Oxford University Press* Ketogenic diets have been used to successfully treat epilepsy and stop seizures for nearly a century. When more traditional therapies, such as pharmacology, reach their limitations for treatment, the metabolic approach surpasses, targeting the overall physiology and homeostatic functions of the patient. Ketogenic Diet and Metabolic Therapies is the first comprehensive scientific resource on the ketogenic diet, covering the latest research including the biomedical mechanisms, established and emerging applications, metabolic alternatives, and implications for health and disease. Experts in clinical and basic research share their research into mechanisms spanning from ion channels to epigenetics, their insights based on decades of experience with the ketogenic diet in epilepsy, and their evidence for emerging applications ranging from autism to Alzheimer's disease to brain cancer. Research in metabolic therapies has spread into laboratories and clinics of every discipline, and is yielding to entirely new classes of drugs and treatment regimens. The book's editor, Susan A. Masino, brings her unique expertise in clinical and research neurology to the overall scope of this work. To further enhance the scope and quality of this one of a kind book, section editors Eric Kossoff, Jong Rho, Detlev Boison, and Dominic P. D'Agostino lend their oversight on their respective sections.

**Human Health and Performance Risks of Space Exploration Missions Evidence Reviewed by the NASA Human Research Program** *U. S. National Aeronautics & Space Administration*

**Classical Dynamics A Contemporary Approach** *Cambridge University Press* Advances in the study of dynamical systems have revolutionized the way that classical mechanics is taught and understood. Classical Dynamics, first published in 1998, is a comprehensive textbook that provides a complete description of this fundamental branch of physics. The authors cover all the material that one would expect to find in a standard graduate course: Lagrangian and Hamiltonian dynamics, canonical transformations, the Hamilton-Jacobi equation, perturbation methods, and rigid bodies. They also deal with more advanced topics such as the relativistic Kepler problem, Liouville and Darboux theorems, and inverse and chaotic scattering. A key feature of the book is the early introduction of geometric (differential manifold) ideas, as well as detailed treatment of topics in nonlinear dynamics (such as the KAM theorem) and continuum dynamics (including solitons). The book contains many worked examples and over 200 homework exercises. It will be an ideal textbook for graduate students of physics, applied mathematics, theoretical chemistry, and engineering, as well as a useful reference for researchers in these fields. A solutions manual is available exclusively for instructors.