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Biology, Ecology and Management of Aquatic Plants Palaeolimnological Proxies as Tools of Environmental Reconstruction in Fresh Water Human origin sites and the World Heritage Convention in Eurasia Infectious Diseases of Wild Birds Human Viruses: Diseases, Treatments and Vaccines Moments and Moment Invariants in Pattern Recognition Advanced Water Supply and Wastewater Treatment: A Road to Safer Society and Environment Heterosis Innovations in Chemical Biology Historic Construction and Conservation Dictionary of Medical Acronyms and Abbreviations Phytoremediation Luna Cognita Genetic and Genomic Resources of Grain Legume Improvement Scientific and Technical Aerospace Reports 30th Scientific-Experts Conference of Agriculture and Food Industry Cumulated Index Medicus Biofilms in Wastewater Treatment Vegetation of Australian Riverine Landscapes Dorland's Dictionary of Medical Acronyms and Abbreviations E-Book The Influence of the Pharmaceutical Industry Cycling Guide Danube Bike Trail 1 Plant Adaptation and Crop Improvement Contact, Structure, and Change Aerospace Medicine and Biology World Heritage Cultural Landscapes, 1992-2002 Monthly Index of Russian Accessions Sweet, Reinforced and Fortified Wines Microbial Ecology of Wastewater Treatment Plants Forest Management and the Water Cycle Bibliography of Agriculture Soil Organic Matter and Biological Activity Plant Genetic Resources The Green Web The Historic Centre of Prague and the Průhonice Park Cultural Landscapes of Universal Value Some Aspects of Snow, Ice and Frozen Ground Biological Wastewater Treatment Dangerous Pollutants (Xenobiotics) in Urban Water Cycle Phytoremediation of Environmental Pollutants

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All three volumes sold as a combined set for a one-time purchase! This comprehensive three-volume set takes you on an incomparable journey of our closest celestial neighbor. Not since the golden age of 19th-century lunar guidebooks has one author managed to cover the Moon in such detail as this all-in-one handbook. Volume 1 begins with a section on the Moon's place in human history, mythology and lore, before gravitating closer to the Moon itself through scientific sections on the Earth-Moon system, lunar motions and cycles. Following these are technical chapters on how to purchase, use and care for lunar observing and photography equipment. Techniques for observing the Moon (both with the naked eye and optical instruments) are detailed as the reader approaches the Moon's surface on this visual tour-de-force. A close-up exploration of the Moon is the result. The "crater-hop" chapters in Volumes 1 and 2 discuss the physical aspects of the Moon's features, offering brief biographical information on the person for whom the feature is named, as well as how each individual was involved in the development of science and selenography from ancient to modern times. Volume 3 contains a plethora of useful appendices that cover a range of topics, from catalogues of lunar features such as nearside lunar domes to a comprehensive list of publishers and observing organizations. Luna Cognita goes far beyond any recent work in both breadth and depth of coverage on the Moon. Written in an accessible, engaging manner for readers of all backgrounds and levels of expertise, this handbook is thus an invaluable resource for anybody who looks up at the glowing sphere in the night sky and wants to learn more about the "Known Moon." This book includes 49 chapters presented as plenary, invited lectures and posters at the conference. Six plenary lectures have published in an issue of Pure and Applied Chemistry, Vol. 79, No. 12, 2007; the titles of these presentations are given as an Annex at the end of the book. I thank all contributors for the preparation of their presentations. It is sad to report that Professor Hitoshi Ohtaki, one of the founders of the Eurasia conferences and contributors passed away on November 5, 2006. Professor Ohtaki enthusiastically promoted international cooperation and took it upon himself to publicize Japanese science to the wider world. His contribution in this book will serve as a memorable contribution to that goal. He will be missed by all of us. This book is dedicated to his memory. Professor Dr. Bilge Sener Editor Memorial Tribute to Professor Dr. Hitoshi Ohtaki Curriculum Vitae of Hitoshi Ohtaki Date of Birth September 16, 1932 Place of Birth Tokyo, Japan Date of Decease November 5, 2006 (at the age of 74) Address 3-9-406 Namiki-2-chome, Kanazawa-ku, Yokohama, Japan Institution Chair Professor of The Research Organization of Science and Engineering, Ritsumeikan University Guest Professor of Yokohama City University Education Bachelor of Science, Nagoya University, 1955 Master of Science, Nagoya University, 1957 Doctor of Science, Nagoya University, 1961

ix x Memorial Tribute to Professor Dr. Moments as projections of an image's intensity onto a proper polynomial basis can be applied to many different aspects of image processing. These include invariant pattern recognition, image normalization, image registration, focus/ defocus measurement, and watermarking. This book presents a survey of both recent and traditional image analysis and pattern recognition methods, based on image moments, and offers new concepts of invariants to linear filtering and implicit invariants. In addition to the theory, attention is paid to efficient algorithms for moment computation in a discrete domain, and to computational

aspects of orthogonal moments. The authors also illustrate the theory through practical examples, demonstrating moment invariants in real applications across computer vision, remote sensing and medical imaging. Key features: Presents a systematic review of the basic definitions and properties of moments covering geometric moments and complex moments. Considers invariants to traditional transforms - translation, rotation, scaling, and affine transform - from a new point of view, which offers new possibilities of designing optimal sets of invariants. Reviews and extends a recent field of invariants with respect to convolution/blurring. Introduces implicit moment invariants as a tool for recognizing elastically deformed objects. Compares various classes of orthogonal moments (Legendre, Zernike, Fourier-Mellin, Chebyshev, among others) and demonstrates their application to image reconstruction from moments. Offers comprehensive advice on the construction of various invariants illustrated with practical examples. Includes an accompanying website providing efficient numerical algorithms for moment computation and for constructing invariants of various kinds, with about 250 slides suitable for a graduate university course. Moments and Moment Invariants in Pattern Recognition is ideal for researchers and engineers involved in pattern recognition in medical imaging, remote sensing, robotics and computer vision. Post graduate students in image processing and pattern recognition will also find the book of interest. There is a growing need for appropriate management of aquatic plants in rivers and canals, lakes and reservoirs, and drainage channels and urban waterways. This management must be based on a sound knowledge of the ecology of freshwater plants, their distribution and the different forms of control available including chemical and physical, and biological and biomanipulation. This series of papers from over 20 different countries was generated from the tenth in the highly successful series of European Weed Research Society symposia on aquatic plant management, this being the tenth. It provides a valuable insight into the complexities involved in managing aquatic systems, discusses state-of-the-art control techniques and deals with patterns of regrowth and recovery post-management. Careful consideration is given to the use of chemicals, a practice which has come under scrutiny in recent years. Underpinning the development of such control techniques is a growing body of knowledge relating to the biology and ecology of water plants. The authorship of the papers represents the collective wisdom of leading scientists and experts from fisheries agencies, river authorities, nature conservation agencies, the agrochemical industry and both governmental and non-governmental organisations. Wines from Grape Dehydration is the first of its kind in the field of grape dehydration - the controlled drying process which produces a special group of wines. These types of wine are the most ancient, made in the Mediterranean basin, and are even described in Herodotus. Until few years ago, it was thought that these wines - such as Pedro Ximenez, Tokai, Passito, and Vin Santo - were the result of simple grape drying, because the grapes were left in the sun, or inside greenhouses that had no controls over temperature, relative humidity or ventilation. But Amarone wine, one of the most prized wines in the world, is the first wine in which the drying is a controlled process. This controlled process - grape dehydration - changes the grape at the biochemical level, and involves specialist vine management, postharvest technology and production processes, which are different from the typical wine-making procedure. After a history of grape dehydration, the book is then divided into two sections; scientific and technical. The scientific section approaches the subjects of vineyard management and dehydration technology and how they affect the biochemistry and the quality compounds of grape; as well as vinification practices to preserve primary volatile compounds and colour of grape. The technical section is devoted to four main classes of wine: Amarone, Passito, Pedro Ximenez, and Tokai. The book then covers sweet wines not made by grape dehydration, and the analytical/sensorial characteristics of the wines. A concluding final chapter addresses the market for these special wines. This book is intended for wineries and wine makers, wine operators, postharvest specialists, vineyard managers/growers, enology/wine students, agriculture/viticulture faculties and course leaders and food processing

scientists This text is a history of the world's oldest global conservation body - the World Conservation Union, established in 1948 as a forum for governments, non-governmental organizations and individual conservationists. The author draws on unpublished archives to reveal the often turbulent story of the IUCN and its achievements in, and influence on, conservation and environmental policy worldwide - establishing national parks and protected areas and defending threatened species. It has long been recognized that soil organic matter is the key to soil fertility. As a nutrient store it gradually provides essential elements which the soil cannot retain for long in inorganic form. It buffers growing plants against sudden changes in their chemical environment and preserves moisture in times of drought. It keeps the soil in a friable, easily penetrated physical condition, well-aerated and free draining, providing young seedlings with an excellent medium for growth. But it has another property, the nature and extent of which have been the subject of argument and controversy ever since scientists began to study the soil, and that is its ability to affect growth directly, other than by providing nutrient elements. Any one wishing to learn about these effects has been faced with a daunting mass of literature, some confusing, often contradictory, and spread through a multitude of journals. Individual aspects have been covered from time to time in reviews but there has obviously been a need for a modern authoritative text book dealing with the many facets of this subject, so the publication of this volume is timely. The editors and authors are all specialists in their fields, fully familiar with the complex nature of soil organic matter and with the particular difficulties arising in any study of its properties. Where controversies exist they have presented all sides of the argument and have highlighted areas where further work is badly needed. A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports (STAR) and International aerospace abstracts (IAA). This book discusses current evidence on human viruses and provides an extensive coverage of newly emerged viruses and current strategies for treatment. Offering a new perspective in view of the re-emergence of Ebola in African countries and Dengue in India and Pakistan, the contents include chapters on emergence, pathogenicity, epidemiology and vaccine uptake. Human Viruses: Diseases, Treatments and Vaccines: The New Insights discusses a range of viruses from the most common such as Influenza and Hepatitis to Zika, Poliomyelitis and Chikungunya among many others. It is authored by a team of experts on viral disease and will be of immense use to virologists, public health experts and clinicians. Stable, safe, secure and readily available water supply is one of the key factors in ensuring a good level of the public health and a stable society. Scientific assessments show that about 80 % of diseases and one-third of the total death toll in the developing countries are caused by the low quality of the drinking water. Other countries are also suffering from water shortages and insufficient quality of the drinking water. Many rivers in Europe and in other parts of the world are significantly polluted by insufficiently treated or untreated wastewater discharge. This book is based on the discussions and papers prepared for the NATO Advanced Research Workshop that took place in Lviv, Ukraine, and addressed recent advances in water supply and wastewater treatment as a prerequisite for a safer society and environment. The contributions critically assess the existing knowledge on urban water management and provide an overview of the current water management issues, especially in the countries in transition in Central and Eastern Europe and in the Mediterranean Dialogue countries. The central theme of the book is the flow of information from experimental approaches in biofilm research to simulation and modeling of complex wastewater systems. Probably the greatest challenge in wastewater research lies in using the methods and the results obtained in one scientific discipline to design intelligent experiments in other disciplines, and eventually to improve the knowledge base the practitioner needs to run wastewater treatment plants. The purpose of Biofilms in Wastewater Treatment is to provide engineers with the knowledge needed to apply the new insights gained by researchers. The authors provide an authoritative insight into

the function of biofilms on a technical and on a lab-scale, cover some of the exciting new basic microbiological and wastewater engineering research involving molecular biology techniques and microscopy, and discuss recent attempts to predict the development of biofilms. This book is divided into 3 sections: Modeling and Simulation; Architecture, Population Structure and Function; and From Fundamentals to Practical Application, which all start with a scientific question. Individual chapters attempt to answer the question and present different angles of looking at problems. In addition there is an extensive glossary to familiarize the non-expert with unfamiliar terminology used by microbiologists and computational scientists. The colour plate section of this book can be downloaded by clicking here. (PDF Format 1 MB) This book gathers the proceedings of the 30th Scientific-Experts Conference of Agriculture and Food Industry, held on September 26-27, 2019, in Sarajevo, Bosnia and Herzegovina. It reports on the application of innovative technologies in food sciences and agriculture, and covers research in plant and animal production, agricultural economics and food production. Further, the book discusses key social and environmental issues, and proposes answers to current challenges. The conference was jointly organized by the Faculty of Agriculture and Food Sciences of the University of Sarajevo, Bosnia and Herzegovina, the Faculty of Agriculture of Ege University, Turkey, the Bosnia and Herzegovina Medical and Biological Engineering Society, and the Faculty of Agriculture of the University of Belgrade, Serbia. The proceedings offer a timely snapshot of cutting-edge, multidisciplinary research and developments in modern agriculture. As such, they address the needs of researchers and professionals, agricultural companies, food producers, and regulatory and food safety agencies. Grain legumes, including common-bean, chickpea, pigeonpea, pea, cowpea, lentil and others, form important constituents of global diets, both vegetarian and non-vegetarian. Despite this significant role, global production has increased only marginally in the past 50 years. The slow production growth, along with a rising human population and improved buying capacity has substantially reduced the per capita availability of food legumes. Changes in environmental climate have also had significant impact on production, creating a need to identify stable donors among genetic resources for environmentally robust genes and designing crops resilient to climate change. Genetic and Genomic Resources of Grain Legume Improvement is the first book to bring together the latest resources in plant genetics and genomics to facilitate the identification of specific germplasm, trait mapping and allele mining to more effectively develop biotic and abiotic-stress-resistant grains. This book will be an invaluable resource for researchers, crop biologists and students working with crop development. Explores origin, distribution and diversity of grain legumes Presents information on germplasm collection, evaluation and maintenance Offers insight into pre-breeding/germplasm enhancement efforts Integrates genomic and genetic resources in crop improvement Internationally contributed work When trying to solicit authors for this book it became apparent that the causal factors for heterosis at the physiological and biochemical level are today almost as obscure as they were 30 years ago. Though biometrical-genetical analyses point to dispersion of complementary genes - not overdominance - as the major cause of the phenomenon, plant breeders' experience still suggests a cautious, pragmatic approach to the dominance-overdominance controversy in breeding hybrid cultivars. Thus we are faced with a striking discordance between our limited comprehension of the causal factors and mechanism of heterosis on the one hand, and the extensive agricultural practice of utilization of hybrid vigor on the other. Such utilization is the result of the economic value of hybrid combinations displaying superior yields and qualities as well as stability of performance, of benefits derived in breeding programs, and of the enhanced varietal protection of proprietary rights. No comprehensive and critical analysis of the phenomenon of heterosis in economic plants has been published for the last three decades since the now classical book Heterosis, edited by J . W. Gowen (Iowa State College Press, Ames, Iowa, 1952). The present book attempts to fill the gap and to assess the status of our present knowledge of the concept, the basis, the extent,

and the application of heterosis in economic plants. Phytoremediation aids to augment bioremediation as it uses broad range plants to remediate soil, sediment, surface water and ground water that have been contaminated with toxic metals, organic, pesticides and radionuclides. This book serves to disseminate detailed up to date knowledge regarding the various aspects of phytoremediation and plant-microbe interaction. The book highlights process and molecular mechanisms for industrial waste detoxification during phytoremediation in wetland plants, role of endophytic bacteria for phytoremediation of environmental pollutants, constructed wetland treatment system for treatment and recycling of hazardous wastewater, amongst other relevant topics. Key Features: Focuses on phytoremediation process for different pollutants, mainly heavy metal detoxification in the presence of other co-pollutants. Includes plant-soil-microbe interactions in phytoremediations and remediation of contaminated water. Explores life cycle assessment of industrial waste contaminated site with organic pollutants. Discusses hyperaccumulator versus non-hyperaccumulator plants for environmental waste management. Includes bacterial assisted phytoremediation and siderophore formation in specific environmental conditions. The protective function of forests for water quality and water-related hazards, as well as adequate water supplies for forest ecosystems in Europe, are potentially at risk due to changing climate and changing land-management practices. Water budgets of forest ecosystems are heavily dependent on climate and forest structure. The latter is determined by the management measures applied in the forestry sector. Various developments of forest management strategies, imposed on a background of changing climate, are considered in assessing the overall future of forest-water interactions in Europe. Synthesizing recent research on the interactions of forest management and the water regime of forests in Europe and beyond, the book makes an important contribution to the ongoing dialogue between scientists dealing with different scales of forest-water interactions. This collaborative endeavour, which covers geographic and climatic gradients from Iceland to Israel and from southern Spain to Estonia and Finland, was made possible through the COST Action "Forest Management and the Water Cycle (FORMAN)", which was launched in 2007 (<http://www.forestandwater.eu/>). The book will be of particular interest to the research community involved in forest ecosystem research and forest hydrology, as well as landscape ecologists and hydrologists in general. It will also provide reference material for forest practitioners and planners in hydrology and land use. Vegetation communities in Australia's riverine landscapes are ecologically, economically and culturally significant. They are also among the most threatened ecosystems on the continent and have been dramatically altered as a result of human activities and climate change. Vegetation of Australian Riverine Landscapes brings together, for the first time, the results of the substantial amount of research that has been conducted over the last few decades into the biology, ecology and management of these important plant communities in Australia. The book is divided into four sections. The first section provides context with respect to the spatial and temporal dimensions of riverine landscapes in Australia. The second section examines key groups of riverine plants, while the third section provides an overview of riverine vegetation in five major regions of Australia, including patterns, significant threats and management. The final section explores critical issues associated with the conservation and management of riverine plants and vegetation, including water management, salinity, fire and restoration. Vegetation of Australian Riverine Landscapes highlights the incredible diversity and dynamic nature of riverine vegetation across Australia, and will be an excellent reference for researchers, academics and environmental consultants. For information on the online course in Biological Wastewater Treatment from UNESCO-IHE, visit: <http://www.iwapublishing.co.uk/books/biological-wastewater-treatment-online-course-principles-modeling-and-design> Over the past twenty years, the knowledge and understanding of wastewater treatment have advanced extensively and moved away from empirically-based approaches to a first principles approach embracing chemistry, microbiology, physical and bioprocess engineering, and mathematics. Many of these advances have

matured to the degree that they have been codified into mathematical models for simulation with computers. For a new generation of young scientists and engineers entering the wastewater treatment profession, the quantity, complexity and diversity of these new developments can be overwhelming, particularly in developing countries where access is not readily available to advanced level tertiary education courses in wastewater treatment. *Biological Wastewater Treatment* addresses this deficiency. It assembles and integrates the postgraduate course material of a dozen or so professors from research groups around the world that have made significant contributions to the advances in wastewater treatment. The book forms part of an internet-based curriculum in biological wastewater treatment which also includes: Summarized lecture handouts of the topics covered in book Filmed lectures by the author professors Tutorial exercises for students self-learning Upon completion of this curriculum the modern approach of modelling and simulation to wastewater treatment plant design and operation, be it activated sludge, biological nitrogen and phosphorus removal, secondary settling tanks or biofilm systems, can be embraced with deeper insight, advanced knowledge and greater confidence. Incorporating HC 1030-i to iii. This book is based on the discussions and papers prepared for the NATO Advanced Research Workshop that took place under the auspices of the NATO Security Through Science Programme and addressed urban water management problems. The workshop sought to critically assess the existing knowledge on Xenobiotics in urban water cycle, with respect to diverse conditions in participating countries, and promote close co-operation among scientists with different professional experience. Conservation in the built environment raises fundamental questions which have been debated for centuries - what is worth preserving, how is it possible, why is it important? This book takes a modern approach to the meaning of a heritage structure and its conservation. The historical evolution of conservation is briefly addressed, considering prominent individuals and cases; along with the history of construction, focusing on materials and related structural elements, with insight on the sizing rules adopted by masons. This explains structural decisions made during the construction process and allows comparison of scientific theories from the 18th century to modern understanding of limit analysis. Damage and collapse mechanisms for masonry construction, as the most widespread structural form for historical buildings, is described. Excess permanent loading and settlement is differentiated from environmental and anthropogenic actions such as earthquake or incorrect intervention. The team of authors brings together unique expertise, with high level research and leading practice with archetypical cases from around the world. The book addresses the history of conservation by exploring materials and structures and the history of construction and damage, so it is of value to students and professionals in civil engineering and architecture, as well as archaeologists and art historians. *Contact, Structure, and Change* addresses the classic problem of how and why languages change over time through the lens of two uniquely productive and challenging perspectives: the study of language contact and the study of Indigenous American languages. Each chapter in the volume draws from a distinct theoretical positioning, ranging from documentation and description, to theoretical syntax, to creole languages and sociolinguistics. This volume acts as a Festschrift honoring Sarah G. Thomason, a long-time professor at the University of Michigan, whose career spans the disciplines of historical linguistics, contact linguistics, and Native American studies. This conversation among distinguished scholars who have been influenced by Thomason extends and in some cases refracts the questions her work addresses through a collection of studies that speak to the enduring puzzles of language change. This dictionary lists acronyms and abbreviations occurring with a reasonable frequency in the literature of medicine and the health care professions. Abbreviations and acronyms are given in capital letters, with no punctuation, and with concise definitions. The beginning sections also include symbols, genetic symbols, and the Greek alphabet and symbols. *Palaeolimnology* is one of the most rapidly developing fields of limnology. The primary objective of this volume is to present new palaeolimnological findings from eastern and

central Europe. Although this area has sometimes received less attention than other areas of Europe, the lakes and mires, coupled with the variability in landscape and the local differences in climate, provide unique opportunity for studying palaeolimnology. The volume starts with a review on late Quaternary records from the Carpathian region, followed by new results on the history of a crater lake, Lake Saint Ana, glacial lakes in the Tatra Mountains and Lake Bled in Slovenia. In addition, the various papers provide new insights on the development of lakes and bogs during the late glacial and Holocene, using a wide range of palaeolimnological proxies, including diatoms, pollen, macrofossils, pigments, cladoceran remains, chironomids, chaoborids, stable isotopes and geochemistry. The motivation for collecting recent knowledge derives from the recognition of the importance, and applicability of palaeolimnological tools to help in defining "reference conditions" as designated within the Water Framework Directives and estimating influence of global climate change on surface waters. Medical acronyms and abbreviations offer convenience, but those countless shortcuts can often be confusing. Now a part of the popular Dorland's suite of products, this reference features thousands of terms from across various medical specialties. Its alphabetical arrangement makes for quick reference, and expanded coverage of symbols ensures they are easier to find. Effective communication plays an important role in all medical settings, so turn to this trusted volume for nearly any medical abbreviation you might encounter. Symbols section makes it easier to locate unusual or seldom-used symbols. Convenient alphabetical format allows you to find the entry you need more intuitively. More than 90,000 entries and definitions. Many new and updated entries including terminology in expanding specialties, such as Nursing; Physical, Occupational, and Speech Therapies; Transcription and Coding; Computer and Technical Fields. New section on abbreviations to avoid, including Joint Commission abbreviations that are not to be used. Incorporates updates suggested by the Institute for Safe Medication Practices (ISMP). This text details the plant-assisted remediation method, "phytoremediation", which involves the interaction of plant roots and associated rhizospheric microorganisms for the remediation of soil contaminated with high levels of metals, pesticides, solvents, radionuclides, explosives, crude oil, organic compounds and various other contaminants. Many chapters highlight and compare the efficiency and economic advantages of phytoremediation to currently practiced soil and water treatment practices. Volume 5 of Phytoremediation: Management of Environmental Contaminants provides the capstone of the series. Taken together, the five volumes provide a broad-based global synopsis of the current applications of phytoremediation using plants and the microbial communities associated with their roots to decontaminate terrestrial and aquatic ecosystems. An overview of crop improvement; Analysis of genotype by environment interactions; Interpretation of genotype by environment interactions; Integrated approaches to plant improvement; Synthesis of strategies for crop improvement. Cultural landscapes are at the interface between nature and culture. They represent the permanent interaction between humans and their environment, shaping the surface of the earth. With the rapid social and economic development cultural landscapes belong to the most fragile and threatened sites on earth. Adapted protection and proper management is urgently needed. Since 1992 outstanding cultural landscapes can be protected under the World Heritage Convention. Thus, the World Heritage Convention is the first international legal instrument recognizing and safeguarding this type of property for future generations. This important step has led to enhanced international and national recognition. The present volume aims to contribute to enhanced protection and management of cultural landscapes around the world. It furthermore highlights in a truly interdisciplinary approach some of the most outstanding cultural landscapes of universal value in their geocultural and environmental context. Free-living birds encounter multiple health hazards brought on by viruses, bacteria, and fungi, some which in turn can significantly impact other animal populations and human health. Newly emerging diseases and new zoonotic forms of older diseases have brought increased global attention to the health

of wild bird populations. Recognition and management of these diseases is a high priority for all those involved with wildlife. Infectious Diseases of Wild Birds provides biologists, wildlife managers, wildlife and veterinary health professionals and students with the most comprehensive reference on infectious viral, bacterial and fungal diseases affecting wild birds. Bringing together contributions from an international team of experts, the book offers the most complete information on these diseases, their history, causative agents, significance and population impact. Focusing on more than just treatment, special emphasis is given to disease processes, recognition and epidemiology. Microbial Ecology of Wastewater Treatment Plants presents different methods and techniques used in microbial ecology to study the interactions and evolution of microbial populations in WWTPs, particularly the new molecular tools developed in the last decades. These molecular biology-based methods (e.g. studies of DNA, RNA and proteins) provide a high resolution of information compared to traditional ways of studying microbial wastewater populations, such as microscopic examination and culture-based methods. In addition, this book addresses the ability of microorganisms to degrade environmental pollutants. Describes application of different Omics tools in Wastewater treatment plants (WWTPs) Demonstrates the role of microorganisms in WWTPs Includes discussions on the microbial ecology of WWTPs Covers the microbial diversity of activated sludge Emphasizes cutting-edge molecular tools

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