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In the course of evolution, a great variety of root systems have learned to overcome the many physical, biochemical and biological problems brought about by soil. This development has made them a fascinating object of scientific study. This volume gives an overview of how roots have adapted to the soil environment and which roles they play in the soil ecosystem. The text describes the form and function of roots, their temporal and spatial distribution, and their turnover rate in various ecosystems. Subsequently, a physiological background is provided for basic functions, such as carbon acquisition, water and solute movement, and for their responses to three major abiotic stresses, i.e. hard soil structure, drought and flooding. The volume concludes with the interactions of roots with other organisms of the complex soil ecosystem, including symbiosis, competition, and the function of roots as a food source.

In *Critique of Black Reason* eminent critic Achille Mbembe offers a capacious genealogy of the category of Blackness—from the Atlantic slave trade to the present—to critically reevaluate history, racism, and the future of humanity. Mbembe teases out the intellectual consequences of the reality that Europe is no longer the world's center of gravity while mapping the relations among colonialism, slavery, and contemporary financial and extractive capital. Tracing the conjunction of Blackness with the biological fiction of race, he theorizes Black reason as the collection of discourses and practices that equated Blackness with the nonhuman in order to uphold forms of oppression. Mbembe powerfully argues that this equation of Blackness with the nonhuman will serve as the template for all new forms of exclusion. With *Critique of Black Reason*, Mbembe offers nothing less than a map of the world as it has been constituted through colonialism and racial thinking while providing the first glimpses of a more just future. This book is intended for introducing the fundamen

An extended version of the first edition, this book includes a set of research review papers which supplement the contents of each chapter by providing a discussion of current research issues and detailed investigations of individual cases.

This is the first edited volume that features two important frameworks, Hückel and quantum chemical topological analyses. The contributors, which include an array of academics of international distinction, describe recent applications of such topological methods to various fields and topics that provide the reader with the current state-of-the-art and give a flavour of the wide range of their potentialities.

'One Health' refers to an interdisciplinary approach to solving complex problems at the interface of human and animal health and the wider ecosystem. It represents an integrated and collaborative approach and addresses diverse issues, such as the detection and management of emerging and re-emerging infectious and non-infectious diseases, food and water security, food hygiene, and global trade. Many complex problems that we currently face must consider anthropogenic factors as well as climate change, environmental impact, international collaboration, tourism, the human-animal bond, economics, plant health, and a myriad of other factors. This book discusses complex concepts in One Health, such as preparedness planning, national level governance, inter-agency co-operation, climate change, human activity in sensitive ecosystems, the global food trade and food safety, antimicrobial resistance, surveillance, and communication from policy level to practical application. The book uses real-world case studies from different geographical regions, ranging from Asia to the

Arctic, different environments from the jungle to the oceans, and different species including bees, fish, domestic and wild animals and humans. The cases are prepared by experts with a diverse range of experience and provide a unique and fascinating on-the-ground approach to One Health topics in practice. One Health Case Studies is an ideal resource for students and practitioners in veterinary medicine, human medicine, public health, agriculture, wildlife management, ecosystem health, and environmental management. *** "The book contains an outstanding compilation of examples of one health in action, and it may very well become the definitive textbook for learning and teaching the one-health concept. ...well referenced and has extensive graphics to help illustrate one-health concepts in action. It is an insightful, thought-provoking, and comprehensive piece of work that is well worth the price for any medical professional." --Journal of the American Veterinary Medical Association, Vol. 250, No. 12, June 2017 [Subject: Health Policy, Public Policy, Environmental Studies]

Neuroscientific research on emotion has developed dramatically over the past decade. The cognitive neuroscience of human emotion, which has emerged as the new and thriving area of 'affective neuroscience', is rapidly rendering existing overviews of the field obsolete. This handbook provides a comprehensive, up-to-date and authoritative survey of knowledge and topics investigated in this cutting-edge field. It covers a range of topics, from face and voice perception to pain and music, as well as social behaviors and decision making. The book considers and interrogates multiple research methods, among them brain imaging and physiology measurements, as well as methods used to evaluate behavior and genetics. Editors Jorge Armony and Patrik Vuilleumier have enlisted well-known and active researchers from more than twenty institutions across three continents, bringing geographic as well as methodological breadth to the collection. This timely volume will become a key reference work for researchers and students in the growing field of neuroscience.

This book offers an accessible and up-to-date reference on primate zoonoses. Recent years have witnessed a rise in human diseases zoonotically transferred from animals, with wild primates implicated in the spread of numerous newly emerging infections. The authors go beyond simply providing an inventory of diseases, helping readers to understand how and why they are transmitted. Important consideration is given to the contemporary cultural and ecological factors involved.

Over 98% of sprayed insecticides and 95% of herbicides reach a destination other than their target species, including non-target species, air, water and soil. The extensive reliance on insecticide use reduces biodiversity, contributes to pollinator decline, destroys habitat, and threatens endangered species. This book offers a more effective application of the Integrated Pest Management (IPM) approach, on an area-wide (AW) or population-wide (AW-IPM) basis, which aims at the management of the total population of a pest, involving a coordinated effort over often larger areas. For major livestock pests, vectors of human diseases and pests of high-value crops with low pest

tolerance, there are compelling economic reasons for participating in AW-IPM. This new textbook attempts to address various fundamental components of AW-IPM, e.g. the importance of relevant problem-solving research, the need for planning and essential baseline data collection, the significance of integrating adequate tools for appropriate control strategies, and the value of pilot trials, etc. With chapters authored by 184 experts from more than 31 countries, the book includes many technical advances in the areas of genetics, molecular biology, microbiology, resistance management, and social sciences that facilitate the planning and implementing of area-wide strategies. The book is essential reading for the academic and applied research community as well as national and regional government plant and human/animal health authorities with responsibility for protecting plant and human/animal health.

Investigative Immunotoxicology provides a critical evaluation of proposed experimental animal models and approaches, and discusses the contribution that immunotoxicity can make to the overall assessment of chemical-induced adverse health effects on humans and the ecosystem. Following a review of general concepts in immunotoxicology, the book discusses emerging methodologies at the cellular and molecular levels, and describes advances in and requirements for animal model development in testing the allergenicity of foods and genetically modified products. It presents animal models of autoimmunity associated with chemical exposure, includes recommendations for the selection of sentinel species in ecotoxicology, and presents an in-depth review of immunotoxicology as it relates to a variety of wildlife species. Finally, the book explains the role of immunotoxicology in human health risk assessment and the regulatory process. Outlining the potential chemical hazards facing human and ecosystem health, this is a valuable reference for professionals and researchers in immunotoxicology and risk assessment. It also deserves the attention of the pharmaceutical industry and environmental toxicologists who are concerned about the effects of xenobiotics on ecosystems.

Includes section, "Recent book acquisitions" (varies: Recent United States publications) formerly published separately by the U.S. Army Medical Library.

Aimed at political sciences students and teachers, Ferreras presents the new idea of 'economic bicameralism' to redefine firms as political entities.

This handbook is focused on the analytical dimension in researching international entrepreneurship. It offers a diverse collection of chapters focused on qualitative and quantitative methods that are being practised and can be used by future researchers in the field of international entrepreneurship. The qualitative cluster covers articles, conceptual and empirical chapters as well as literature reviews, whereas the quantitative cluster analyses international entrepreneurship through a broad range of statistical methods such as regressions, panel data, structural equation modelling as well as decision-making and optimisation models in certain and uncertain circumstances. This book is essential reading for researchers, scholars and practitioners who want to learn and implement new methods in analysing entrepreneurial opportunities across national borders.

Insect pests are becoming a problem of ever-more biblical proportions. This new textbook collates a series of selected papers that attempt to address various fundamental components of area-wide insect pest control. Of special interest are the numerous papers on pilot and operational programs that pay special attention to

practical problems encountered during program implementation. It's a compilation of more than 60 papers authored by experts from more than 30 countries.

Includes necrologies.

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This book highlights progress in terms of Virus Biology and Infection Detection, Prevention, and Control, along with Screening, Testing, and Detection Techniques, that will provide learners and researchers (from basic to advanced) with the most innovative computer-driven methodologies for the fight against COVID-19. In addition, this book also covers the Pre- and Post-Impact of the COVID-19 Pandemic Crisis that will definitely provide useful content for researchers to think broadly about the analytical areas affected by COVID-19. This ultimately shows different paths to the same destination to help understand the nature of the COVID-19 pandemic and how to avoid it in the future.

Includes the Aerial Warfare In Europe During World War II illustrations pack with over 200 maps, plans, and photos. This book is a comprehensive analysis of an air force, the Luftwaffe, in World War II. It follows the Germans from their prewar preparations to their final defeat. There are many disturbing parallels with our current situation. I urge every student of military science to read it carefully. The lessons of the nature of warfare and the application of airpower can provide the guidance to develop our fighting forces and employment concepts to meet the significant challenges we are certain to face in the future.

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