

Modern Zoology Dr Ramesh Gupta

The Instant New York Times Bestseller "A book historians will relish." —Peggy Noonan, Wall Street Journal "Must read. I've read every book about the Trump presidency. This is the best." —Bill Press An account like no other, from the White House reporter who has known President Donald Trump for more than 25 years. We have never seen a president like this...norm-breaking, rule-busting, dangerously reckless to some and an overdue force for change to others. One thing is clear: We are witnessing the reshaping of the presidency. Jonathan Karl brings us into the White House in a powerful book unlike any other on the Trump administration. He's known and covered Donald Trump longer than any other White House reporter. With extraordinary access to Trump during the campaign and at 1600 Pennsylvania Avenue, Karl delivers essential new reporting and surprising insights. These are the behind-the-scenes moments that define Trump's presidency—an extraordinary look at the president, the person, and those closest to him. This is the real story of Trump's unlikely rise; of the struggles and battles of those who work in the administration and those who report on it; of the plots and schemes of a senior staff enduring stunning and unprecedented unpredictability. Karl takes us from a TV set turned campaign

office to the strange quiet of Trump's White House on Inauguration Day to a high-powered reelection campaign set to change the country's course. He shows us an administration rewriting the role of the president on the fly and a press corps that has never been more vital. Above all, this book is only possible because of the surprisingly open relationship Donald Trump has had with Jonathan Karl, a reporter he has praised, fought, and branded an enemy of the people. This is Front Row at the Trump Show.

Over the last decade considerable progress has been made in white biotechnology research and further major scientific and technological breakthroughs are expected in the future. The first large-scale industrial applications of modern biotechnology have been in the areas of food and animal feed production (agricultural/green biotechnology) and in pharmaceuticals (medical/red biotechnology). In contrast, the productions of bio-active compounds through fermentation or enzymatic conversion are known as industrial or white biotechnology. The fungi are ubiquitous in nature and have been sorted out from different habitats, including extreme environments (high temperature, low temperature salinity and pH); and associated with plants (Epiphytic, Endophytic and Rhizospheric). The fungal strains are beneficial as well as harmful for human beings. The beneficial fungal strains may play important roles in the agricultural,

industrial, and medical sectors. The fungal strains and its product (enzymes, bioactive compounds, and secondary metabolites) are very useful for industry (e.g., the discovery of penicillin from *Penicillium chrysogenum*). This discovery was a milestone in the development of white biotechnology as the industrial production of penicillin and antibiotics using fungi moved industrial biotechnology into the modern era, transforming it into a global industrial technology. Since then, white biotechnology has steadily developed and now plays a key role in several industrial sectors providing both high value nutraceutical and pharmaceutical products. The fungal strains and bioactive compounds also play an important role in environmental cleaning. This volume covers the latest research developments related to value-added products in white biotechnology through fungi.

Pedagogically enriched, the book provides engaging chapter-end assessment exercises to enhance and strengthen learning of the readers

This book explores the role of the social and natural sciences in supporting the development of indigenous knowledge systems. It looks at how indigenous knowledge systems can impact on the transformation of knowledge generating institutions such as scientific and higher education institutions on the one hand, and the policy domain on the other.

Elizabeth DeLoughrey invokes the cyclical model of the continual movement and rhythm of the ocean ('tidalectics') to destabilize the national, ethnic, and even regional frameworks that have been the mainstays of literary study. The result is a privileging of alter/native epistemologies whereby island cultures are positioned where they should have been all along—at the forefront of the world historical process of transoceanic migration and landfall. The research, determination, and intellectual dexterity that infuse this nuanced and meticulous reading of Pacific and Caribbean literature invigorate and deepen our interest in and appreciation of island literature. —Vilsoni Hereniko, University of Hawai'i "Elizabeth DeLoughrey brings contemporary hybridity, diaspora, and globalization theory to bear on ideas of indigeneity to show the complexities of 'native' identities and rights and their grounded opposition as 'indigenous regionalism' to free-floating globalized cosmopolitanism. Her models are instructive for all postcolonial readers in an age of transnational migrations." —Paul Sharrad, University of Wollongong, Australia

Routes and Roots is the first comparative study of Caribbean and Pacific Island literatures and the first work to bring indigenous and diaspora literary studies together in a sustained dialogue. Taking the "tidalectic" between land and sea as a dynamic starting point, Elizabeth DeLoughrey foregrounds geography and history in her exploration of how island writers inscribe the complex relation

between routes and roots. The first section looks at the sea as history in literatures of the Atlantic middle passage and Pacific Island voyaging, theorizing the transoceanic imaginary. The second section turns to the land to examine indigenous epistemologies in nation-building literatures. Both sections are particularly attentive to the ways in which the metaphors of routes and roots are gendered, exploring how masculine travelers are naturalized through their voyages across feminized lands and seas. This methodology of charting transoceanic migration and landfall helps elucidate how theories and people travel, positioning island cultures in the world historical process. In fact, DeLoughrey demonstrates how these tropical island cultures helped constitute the very metropolises that deemed them peripheral to modernity. Fresh in its ideas, original in its approach, *Routes and Roots* engages broadly with history, anthropology, and feminist, postcolonial, Caribbean, and Pacific literary and cultural studies. It productively traverses diaspora and indigenous studies in a way that will facilitate broader discussion between these often segregated disciplines.

It's no secret that certain social groups have predominated India's business and trading history, with business traditionally being the preserve of particular 'Bania' communities. However, the past four or so decades have seen a widening of the

social base of Indian capital, such that the social profile of Indian business has expanded beyond recognition, and entrepreneurship and commerce in India are no longer the exclusive bastion of the old mercantile castes. In this meticulously researched book ? acclaimed for being the first social history to document and understand India?s new entrepreneurial groups ? Harish Damodaran looks to answer who the new `wealth creators? are, as he traces the transitional entry of India?s middle and lower peasant castes into the business world. Combining analytical rigour with journalistic flair, India?s New Capitalists is an essential read for anyone seeking to understand the culture and evolution of business in contemporary South Asia.

Publisher Description

Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies has been designed to bind novel knowledge of wastewater pollution-induced impacts on various aspects of our environment. The book also contains novel methods and tools for the monitoring and treatment of produced wastewater.

Several Integrated Pest Management (IPM) approaches are available for managing pests of varied kinds, including individual and integrated methods for pest suppression. Recently the focus has shifted to pest management tools that act on insect systems selectively, are compatible with the environment, and are not harmful for ecosystems. Other approaches target specific biochemical and physiological aspects of insect metabolism, and involve

biotechnological and genetic manipulation. Still other approaches include the use of nanotechnology, endophytes, optical and sonic manipulation to detect and control pest insects. Unfortunately, conventional forms of pest management do not focus on technology transfer to the ground level workers and farmers. As a result, farmers are incurring huge losses of crops and revenues. This book highlights the importance of using communication tools in pest management and demonstrates some success stories of utilizing automated unmanned technologies in this context. The content is divided into three sections, the first of which, “Pest Population Monitoring: Modern Tools,” covers long and short-range pest population monitoring techniques and tools such as satellites, unmanned aerial vehicles/drones, remote sensing, digital tools like GIS, GPS for mapping, lidar, mobile apps, software systems, artificial diet designs and functional diversity of info-chemicals. The second section of the book is devoted to “Emerging Areas in Pest Management” and offers a glimpse of diversified tactics that have been developed to contain and suppress pest populations such as endophytes, insect vectors of phytoplasma, Hymenopterans parasitoids, mass production and utilization of NPV etc. In turn, the third section focuses on “Integrated Pest Management” and presents farming situations that illustrate how research in diversified aspects has helped to find solutions to specific pest problems, and how some new and evolving tactics can be practically implemented. Given its scope, the book offers a valuable asset for entomology and plant pathology researchers, students of zoology and plant protection, and readers whose work involves agriculture, horticulture, forestry and other ecosystems.

1. Introduction to Laboratory 2. Experiments in Plant Physiology 3. Biochemistry 4. Biotechnology 5. Ecology 6. Plant Utilization 7. Project Reports Appendix.

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This book presents a collection of articles on various aspects of current research on aging. These include model systems, cellular, biochemical and molecular aspects of experimental aging research, as well as selected intervention studies on age-related diseases. Aging is a global challenge to human society. Children are always in a hurry to become adults, while adults produce offspring and add to the gene pool. However, after adulthood or the attainment of reproductive maturity, all physiological parameters of the living organism start to undergo the aging process. Old age sets in slowly but surely, and usually continues for a prolonged period. If vigor and vitality are the main advantages of adulthood, old age offers the rewards of experience and maturity. Biologists ask questions such as: Why do we age? How do we become old? Is it possible to slow down, postpone or even prevent aging? In turn, medical experts ask: What are the diseases associated with old age? Are there medicines that can help affected elderly patients? In fact both groups are asking themselves how can we add more health to old age. Healthy aging is the dream of every individual. But to achieve this, it is fundamental that we first understand the cellular, biochemical and molecular basis of the aging process in mammalian cells, tissues and intact living organisms, which can serve as experimental model systems in Biomedical Gerontology. Once the biology of aging is understood at the genetic and molecular levels, interventional approaches to aging and its associated diseases may be easier to plan and implement at the preclinical level.

Competition Science Vision

The South Asian subcontinent is home to nearly a billion people and has been the site of fierce historical contestation. It is a panoply of languages and religions with a rich and complex history and culture. Drawing on the newest and most sophisticated historical research and

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scholarship in the field, *Modern South Asia* is written in an accessible style for all those with an intellectual curiosity about the region. After sketching the pre-modern history of the subcontinent, the book concentrates on the last three centuries from c.1700 to the present. Jointly written by two leading Indian and Pakistani historians, it offers a rare depth of historical understanding of the politics, cultures and economies that shape the lives of more than a fifth of humanity. In this comprehensive study, the authors debate and challenge the striking developments in contemporary South Asian history and historical writing. The book provides new insights into the structure and ideology of the British raj, the meaning of subaltern resistance, the refashioning of social relations along lines of caste, class, community and gender, the different strands of anti-colonial nationalism and the dynamics of decolonization. This book is a work of synthesis and interpretation covering the entire spectrum of modern South Asian history - social, economic and political. The authors offer an understanding of this strategically and economically vital part of the world.

FOR B.Sc & B.Sc.(Hons) CLASSES OF ALL INDIAN UNIVERSITIES AND ALSO AS PER UGC MODEL CURRICULUM Contents: CONTENTS:Protochordates:Hemichordata

1.Urochordata Cephalochordata Vertebrates : Cyclostomata 3. Agnatha, Pisces Amphibia 4. Reptilia 5. Aves Mammalia 7 Comparative Anatomy: Integumentary System 8 Skeletal System Coelom and Digestive System 10 Respiratory System 11. Circulatory System Nervous System 13. Receptor Organs 14 Endocrine System 15 Urinogenital System 16 Embryology Some Comparative Charts of Protochordates 17 Some Comparative Charts of Vertebrate Animal Types 18 Index.

The text begins by reviewing, in a simple and precise manner, the physical principles of

three pillars of Refrigeration and Air Conditioning, namely thermodynamics, heat transfer, and fluid mechanics. Following an overview of the history of refrigeration, subsequent chapters provide exhaustive coverage of the principles, applications and design of several types of refrigeration systems and their associated components such as compressors, condensers, evaporators, and expansion devices. Refrigerants too, are studied elaboratively in an exclusive chapter. The second part of the book, beginning with the historical background of air conditioning in Chapter 15, discusses the subject of psychrometrics being at the heart of understanding the design and implementation of air conditioning processes and systems, which are subsequently dealt with in Chapters 16 to 23. It also explains the design practices followed for cooling and heating load calculations. Each chapter contains several worked-out examples that clarify the material discussed and illustrate the use of basic principles in engineering applications. Each chapter also ends with a set of few review questions to serve as revision of the material learned.

This introductory textbook covers the fundamentals of engineering mechanics (solid mechanics and fluid mechanics) and thermodynamics. The solid mechanics chapters cover the basic topics on statics, dynamics, and strength of materials. The fluid mechanics chapters deal with elementary aspects of fluid at rest and in motion. The last chapters discuss thermodynamic principles. The contents include solved examples in an attempt to clarify the topics.

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This book focuses on successful application of microbial biotechnology in areas such as medicine, agriculture, environment and human health.

"Maize is one of the most important and widely grown cereal crops in the world and is a staple food for almost a billion people, particularly in the developing world. It has been estimated that maize yields need to increase by 60% by 2050. There is an urgent need to increase yields in the face of such challenges as climate change, threats from pests and diseases and the need to make cultivation more resource-efficient and sustainable. Drawing on an international range of expertise, this collection focuses on ways of improving the cultivation of maize at each step in the value chain, from breeding to post-harvest storage. Volume 2 reviews research on improvements in cultivation techniques such as nutrient management, crop rotation, intercropping and other aspects of conservation agriculture. It also discusses developments in methods for combatting pests and diseases. Achieving sustainable cultivation of maize Volume 2: Cultivation techniques, pest and disease control will be a standard reference for cereal scientists in universities, government and other research centres and companies involved in maize cultivation. It is accompanied by Volume 1 which reviews developments in breeding and ways research can be translated into effective outcomes for smallholders in the developing world."--Provided by publisher.

The whistling dog, or dhole, of India is a little-known, distant cousin of our domestic dog. Highly intelligent, wary of man, and elusive as a jungle predator, this rare and

beautiful creature is one of the most difficult animals to study. Its very nature defies the patience and skill of the most dedicated naturalist. Yet knowledge about its habits and a more widespread understanding and appreciation of this species are essential for its protection and continued survival. For, like so much of the world's wildlife today, the dhole is a species threatened with extinction. The first in-depth field study of the whistling dog, *The Whistling Hunters* examines the dhole in the animal's environment. The book is based on the author's field studies and the observations of other naturalists. It presents all the facts currently known about the species, as it makes a passionate plea for conservation and the reevaluation of our land-use patterns. The book is also an attempt to understand the essence of wilderness since it, too, like the whistling dog, is an endangered species.

Discover how the application of novel multidisciplinary, integrative approaches and technologies are dramatically changing our understanding of the pathogenesis of infectious diseases and their treatments. Each article presents the state of the science, with a strong emphasis on new and emerging medical applications. *The Encyclopedia of Infectious Diseases* is organized into five parts. The first part examines current threats such as AIDS, malaria, SARS, and influenza. The second part addresses the evolution of pathogens and the relationship between human genetic diversity and the spread of infectious diseases. The next two parts highlight the most promising uses of molecular identification, vector control, satellite detection, surveillance, modeling, and

high-throughput technologies. The final part explores specialized topics of current concern, including bioterrorism, world market and infectious diseases, and antibiotics for public health. Each article is written by one or more leading experts in the field of infectious diseases. These experts place all the latest findings from various disciplines in context, helping readers understand what is currently known, what the next generation of breakthroughs is likely to be, and where more research is needed. Several features facilitate research and deepen readers' understanding of infectious diseases: Illustrations help readers understand the pathogenesis and diagnosis of infectious diseases Lists of Web resources serve as a gateway to important research centers, government agencies, and other sources of information from around the world Information boxes highlight basic principles and specialized terminology International contributions offer perspectives on how infectious diseases are viewed by different cultures A special chapter discusses the representation of infectious diseases in art With its multidisciplinary approach, this encyclopedia helps point researchers in new promising directions and helps health professionals better understand the nature and treatment of infectious diseases.

1. Introduction 2. Climatic and Topographic Factors 3. Edaphic Factors (Soil Science)4. Biotic Factor 5. Ecological Adaptations 6. Autecology of Species 7. Population - Structure and Dynamics 8. Community-Structure and Classification 9. Community Dynamics (Ecological Succession)10. Ecosystem: Structure and Function 11. Habitat

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Ecology 12. Degradation of Natural Resources and the Environmental Problems 13. Energy Crisis and Non-Conventional Sources 14. Biodiversity and Wildlife of India and its Conservation 15. Environment and Development-India's Viewpoint 16. Global Warming and Climate Change 17.

For high school biology students and college zoology students, as well as for all students of nature, this coloring book teaches the structure and function of the major animal groups, from simple to complex. Brief, informative texts accompany each drawing.

Set in the world of the New York Times–bestselling Winner’s Trilogy, Marie Rutkoski’s *The Midnight Lie* is an epic LGBTQ romantic fantasy about learning to free ourselves from the lies others tell us—and the lies we tell ourselves. Where Nirrim lives, crime abounds, a harsh tribunal rules, and society’s pleasures are reserved for the High Kith. Life in the Ward is grim and punishing. People of her low status are forbidden from sampling sweets or wearing colors. You either follow the rules, or pay a tithe and suffer the consequences. Nirrim keeps her head down, and a dangerous secret close to her chest. But then she encounters Sid, a rakish traveler from far away, who whispers rumors that the High Kith possess magic. Sid tempts Nirrim to seek that magic for herself. But to do that, Nirrim must surrender her old life. She must place her trust in this sly stranger who asks, above all, not to be trusted.

For B.Sc. and B.Sc(hons.) students of all Indian Universities & Also as per UGC Model

Curriculum. The multicoloured figures and arrestingly natural photographs effectively complement the standard text matter. The target readers shall highly benefit by correlating the content with the multicoloured figures and photographs. The book has been further upgraded with addition of important questions: long, short, very short and multiple questions in all chapters. A complete comprehensive source for the subject matter of various university examinations.

Microgrid technology is an emerging area, and it has numerous advantages over the conventional power grid. A microgrid is defined as Distributed Energy Resources (DER) and interconnected loads with clearly defined electrical boundaries that act as a single controllable entity concerning the grid. Microgrid technology enables the connection and disconnection of the system from the grid. That is, the microgrid can operate both in grid-connected and islanded modes of operation. Microgrid technologies are an important part of the evolving landscape of energy and power systems. Many aspects of microgrids are discussed in this volume, including, in the early chapters of the book, the various types of energy storage systems, power and energy management for microgrids, power electronics interface for AC & DC microgrids, battery management systems for microgrid applications, power system analysis for microgrids, and many others. The middle section of the book presents the power quality problems in microgrid systems and its mitigations, gives an overview of various power quality problems and its solutions, describes the PSO algorithm based UPQC controller for power quality

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enhancement, describes the power quality enhancement and grid support through a solar energy conversion system, presents the fuzzy logic-based power quality assessments, and covers various power quality indices. The final chapters in the book present the recent advancements in the microgrids, applications of Internet of Things (IoT) for microgrids, the application of artificial intelligent techniques, modeling of green energy smart meter for microgrids, communication networks for microgrids, and other aspects of microgrid technologies. Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in the area of microgrids, this is a must-have for any library.

ADVANCED PRACTICAL ZOOLOGY For B.Sc. III Yr, B.Sc.(H) and M.Sc. Students of All Indian University

Biology Class Xii Is A Comprehensive Textbook Which Ensures A Detailed Coverage Of The Latest Ncert Syllabus. Key Features- Comprehensive Text In Lucid Language- Step-By-Step Explanation Of The Subject Matter- Extensive Use Of Well-Labeled Illustrations To Explain Key Concepts- Wide Range Of Questions For Self-Assessment- Answer Key To Select Questions- Cd-Rom With Additional Questions For Practice And Revision

Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics,

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Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

The improvement of crop species has been a basic pursuit since cultivation began thousands of years ago. To feed an ever increasing world population will require a great increase in food production. Wheat, corn, rice, potato and few others are expected to lead as the most important crops in the world. Enormous

efforts are made all over the world to document as well as use these resources. Everybody knows that the introgression of genes in wheat provided the foundation for the “Green Revolution”. Later also demonstrated the great impact that genetic resources have on production. Several factors are contributing to high plant performance under different environmental conditions, therefore an effective and complementary use of all available technological tools and resources is needed to meet the challenge.

Our Earth is considered as a natural system which organizes and controls itself. However, the present scale of anthropogenic activity is unprecedented in the history of mankind compelling the intelligentsia to ponder over the scientific causes of the problems, processes and sustainable and pragmatic solutions. The current rate of resource use and consumption pattern are depleting the planet’s finite resources and damaging life-supporting ecosystems. A large number of toxic substances are increasingly found in air, water, soil, and flora and fauna. We are in the midst of a period of increasing interconnected and complex global challenges that seek action across temporal and spatial scales, diverse sectors, and concerted efforts from global citizens. The environment on account of human’s action has been experiencing imbalances and ecological catastrophe. Environmental issues like global climate change, biodiversity loss, the rapid

depletion of natural resources, degradation of global commons, stratospheric ozone depletion have been restricting the safe operating space and transgressing the planetary boundaries endangering the existence of human societies. The global environmental problems if not scientifically managed may end up in the civilizational collapse. Nevertheless, the underlying commonality among these environmental issues is interrelatedness, complexity, and difficulty in identifying and implementing solutions. The global environmental challenges can be managed by adopting sustainable green technologies which dovetails the principles of environmental sustainability with social and ecological sustainability. Green growth is construed as a new development paradigm that sustains economic growth while at the same time ensuring environmental sustainability. Agriculture plays a vital role in our lives, providing food and economic benefits. Today, it faces severe challenges, due to decreasing arable land, depleting natural resources, changing climate pattern, and yet increasing demand for food. The recent introduction of nanotechnology in agriculture offers sustainable and precise solutions for developing smart agriculture practices and addressing the challenges faced by the ag-sector. Therefore, it is essential to understand this new science from a multidimensional perspective. Experts in the field have contributed in putting together this volume, covering topics like plant growth,

protection and management using engineering nanoscale materials. The chapters in the book have been peer-reviewed and selected for publication based on independent reviewers' reports. The book covers very specific, in-depth, and fundamental and applied aspects of the latest ag-nanotechnology research. It is hoped that each chapter of the book will be very useful for researchers, policy makers, and other audiences from interdisciplinary scientific subjects.

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