

## Sm 1 Nepal Yadav

This book describes the myriad components of the Hindu Kush-Himalaya (HKH) region. The contributors elaborate on challenges, failures, and successes in efforts to conserve the HKH, its indigenous plants and animals, and the watershed that runs from the very roof of the planet via world-rivers to marine estuaries, supporting a human population of some two billion people. Readers will learn how the landforms, animal species and humans of this globally fascinating region are connected, and understand why runoff from snow and ice in the world's tallest mountains is vital to inhabitants far downstream. The book comprises forty-five chapters organized in five parts. The first section, Landscapes, introduces the mountainous watersheds of the HKH, its weather systems, forests, and the 18 major rivers whose headwaters are here. The second part explores concepts, cultures, and religions, including ethnobiology and indigenous regimes, two thousand years of religious tradition, and the history of scientific and research expeditions. Part Three discusses policy, wildlife conservation management, habitat and biodiversity data, as well as the interaction of animals and humans. The fourth part examines the consequences of development and globalization, from hydrodams, to roads and railroads, to poaching and illegal wildlife trade. This section includes studies of animal species including river dolphins, woodpeckers and hornbills, langurs, snow leopards and more. The concluding section offers perspectives and templates for conservation, sustainability and stability in the HKH, including citizen-science projects and a future challenged by climate change, growing human population, and global conservation decay. A large assemblage of field and landscape photos, combined with eye-witness accounts, presents a 50-year local and wider perspective on the HKH. Also included are advanced digital topics: data sharing, open access, metadata, web portal databases, geographic information systems (GIS) software and machine learning, and data mining concepts all relevant to a modern scientific understanding and sustainable management of the Hindu Kush-Himalaya region. This work is written for scholars, landscape ecologists, naturalists and researchers alike, and it can be especially well-suited for those readers who want to learn in a more holistic fashion about the latest conservation issues.

**Himalayan Phytochemicals: Sustainable Options for Sourcing and Developing Bioactive Compounds** provides a detailed review of the important medicinal plants which have already been discovered in the Himalayan region, outlining their discovery, activity and underlying chemistry. In addition, it supports a global shift towards sustainable sourcing of natural products from delicate ecosystems. Across the world, environmental destruction and overharvesting of medicinal plants are reducing and destroying multiple important sources and potential leads before researchers have the chance to discover, explore or synthesize them effectively. By identifying this problem and discussing its impact on the Himalayan region, **Himalayan Phytochemicals: Sustainable Options for Sourcing and Developing Bioactive Compounds** frames the ongoing global struggle and highlights the key factors that must be considered and addressed when working with phytochemicals from endemic plant sources. Reviews both well-known and recently discovered plants of this region Highlights methods for phytochemical extraction and analysis Provides context to support a shift towards sustainable sourcing of natural products

This book provides an overview of the current state of the art in wireless networks around the globe, focusing on utilizing the latest artificial intelligence and soft computing techniques to provide design frameworks for wireless networks. These techniques play a vital role in developing a more robust algorithm suitable for the dynamic and heterogeneous environment, making the network self-managed, self-operational, and self-configurational, and efficiently reducing uncertainties and imprecise information.

**Mineral Resources of Nepal** **Ethnobotany and Medicinal Plants of India and Nepal (Vol. 3)** Scientific Publishers

Identity movements, based on ethnicity, caste, language, religion and regional identity, have become increasingly significant in Nepal, reshaping debates on the definition of the nation, nationalism and the structure of the state. This book analyzes the rapid rise in ethnic and nationalist mobilization and conflict since 1990, the dynamics and trajectories of these movements, and their consequences for Nepal. From an interdisciplinary perspective, the book looks at the roots of mobilization and conflicts, the reasons for the increase in mobilization and violent activities, and the political and social effects of the movements. It provides a historical context for these movements and investigates how identities intersect with forms of political and economic inequality. Nepal's various identity groups - Dalits, indigenous nationalities, Madhesis and Muslims - have mobilized to different extents. By examining these diverse movements within the same time period and within a unitary state, the book illuminates which factors are more salient for the mobilization of identity groups.

Bringing together empirical contributions on key issues in identity production in a comparative perspective, the book presents an interesting contribution to South Asian studies as well as studies of nationalism and identity more broadly.

Ocular infections remain an important cause of ocular morbidity and loss of vision, yet many are preventable or curable. Early diagnosis and prompt treatment help in the control of such infectious disorders and the prevention of blindness. There are many infectious diseases of the eye and adnexa and knowledge of their diagnosis and management is essential to an optimal therapeutic outcome. This book provides the practitioner with the important information required to ensure appropriate diagnosis and management of ocular infectious diseases. Specific clinical signs and symptoms are outlined, and the role of specific diagnostic tests, including molecular biology techniques, is explained. All of the most common microorganisms are considered and current knowledge on the antimicrobial therapy of ocular infections is clearly summarized. **Ocular Infections** will be a great help to physicians as a guide to the care of patients with ocular infectious diseases.

The book explores the challenges and opportunities associated with high-altitude agro-ecosystems and the factors that influence them. It discusses the various indigenous agricultural practices and approaches, as well as the microbiology of mountain & hill agro-ecosystems, providing a comprehensive overview of the various factors that control the microbiome at high altitudes. The contributions examine microbiological advances, such as use of "omics" technologies for hill agriculture and environmental sustainability, and explore the use of nanotechnology for agricultural and environmental sustainability at higher altitudes. The book also describes various aspects of low-temperature microbiology in the context of high-altitude farming and environmental sustainability.

The present book "Ethnobotany and Medicinal Plants of India and Nepal" is next publication in the series on Indian Medicinal Plants. The

contributors of the papers in this book are well known Indian Ethnobotanists who have furnished authenticated data for further scientific and clinical tests. The information about the medicinal plants spread over 325 pages, covers various tribal communities from north to south and east to west and different ailments cured in nature's dispensary. Beautiful photographs of some medicinal plants have also been provided by some contributors. The information furnished in the book will be useful for controlling biopiracy, backing conservation strategies and facilitate better understanding of phytotherapy research.

This book constitutes the refereed proceedings of the 19th International TRIZ Future Conference on Automated Invention for Smart Industries, held in Marrakesh, Morocco, in October 2019 and sponsored by IFIP WG 5.4. The 41 full papers presented were carefully reviewed and selected from 72 submissions. They are organized in seven thematic sections: TRIZ improvement: theory, methods and tools; TRIZ and other innovation approaches; TRIZ applications in technical design; TRIZ applications in eco design; TRIZ applications in software engineering; TRIZ applications in specific disciplinary fields; and TRIZ in teaching.

This book is dedicated to global perspectives on sustainable forest management. It focuses on a need to move away from purely protective management of forests to innovative approaches for multiple use and management of forest resources. The book is divided into two sections; the first section, with thirteen chapters deals with the forest management aspects while the second section, with five chapters is dedicated to forest utilization. This book will fill the existing gaps in the knowledge about emerging perspectives on sustainable forest management. It will be an interesting and helpful resource to managers, specialists and students in the field of forestry and natural resources management.

The third edition of the South Asia Defence and Strategic Year Book offers an analysis of defence, economic and social issues that impact regional security in South Asia. The wide ranging perspectives give a deep insight into the factors and linkages that impact the emerging international relations of the region, with particular emphasis on India which is an economic, military and political powerhouse with an expanding footprint in the World. South Asia is a region that is rife with geopolitics. By virtue of its population and location, it is a reflection of the challenges of the interconnected, integrated and interdependent world. Its security environment is relatively unsettled and is a reason for both hope and despair. Its issues, which have international as well as regional relevance, have their own dynamics and trends that need a deeper understanding. The Year Book aims to provide a comprehensive overview of the security environment in the region by focusing on an in-depth analysis of military capabilities and strategic imperatives obtaining in the region. Apart from outlining the general security environment, detailed military balance, trends in weapon systems and technology, defence industry, missile and nuclear capabilities and terrorism issues have been highlighted. Growing strategic linkages and independence of nation states make it imperative to consider the region as a whole to incorporate a holistic approach. The Year Book also contains studies on China and other Southeast Asian nations to that effect. Thus the underlying theme of this publication is to enable 'understanding through information'. While the threat of terrorism remains at the forefront of most analyses, the move towards popular and democratically elected governments in South Asia has not eclipsed the existing challenges to governance in all the countries of the region. Poverty and economic disparities, coupled with ethnic and social divisions, have created political and social fault lines that have been exploited by non-state actors with their own agendas. Thus we hope to promote peace through understanding by delineating the issues of concern in the region.

The lives of more than a billion people depend on the answer! Thirty years ago, the Green Revolution changed the way agriculture was practiced on the Indo-Gangetic Plain (IGP). This valuable book critically analyzes and discusses the rice-wheat cropping system introduced at that time. The Rice-Wheat Cropping System of South Asia: Trends, Constraints, Productivity and Policy addresses the crucial question, "Are the sustainability and productivity of this system in a state of decline?" The Rice-Wheat Cropping System of South Asia brings together information gathered from research institutions, government organizations, and farmer surveys. The analysis concentrates on the trends of rice-wheat cropping over time, paying special attention to the evidence of-and reasons for-changes in productivity. It also analyzes the impact of this regional system on soil fertility and water supplies, as well as the increasing demands for new and better fertilizers and pesticides. The Rice-Wheat Cropping System of South Asia looks at the problems that have arisen for both the rice and wheat phases, including: the need for changes in crop establishment techniques for crop diversification declining soil fertility changes in pest populations a host of water-management issues the need for policy redirection to sustain productivity growth the impact of global climate change sustainable improvements in productivity This informative book is an essential planning tool for agronomists, policymakers, and agroeconomists. It is also a useful reference for anyone interested in the problems of famine and intensive cropping not only in South Asia but in the world.

The work of Elinor and Vincent Ostrom represents a distinctive contribution to the study of political economy, public policy and administration, collective action, and governance theory. Efforts to present a comprehensive overview of the Bloomington School that grew around the Workshop in Political Theory and Policy Analysis (now renamed the Ostrom Workshop), which they founded more than 40 years ago, received new impetus with the award of the Nobel Memorial Prize in Economic Science to Elinor Ostrom in 2009. Since then, renewed attempts have been made to map the Ostroms' contributions to theories of polycentric governance and collective action, and to multi-methods and comparative institutional analysis of ways of managing social and ecological systems, common pool resources, public economies, and metropolitan reform. The open-ended and multiform nature of the Ostroms' research program defies a single comprehensive overview; yet, it is a stimulus towards both creativity and disciplinary cross-fertilization in social science research. What sets this volume apart is that it brings together theory and practice, models and work on the ground, design and creativity, empirics and norms, to outline the significance of the Ostroms' research program for the future. Each contribution to the volume takes the Ostromian perspective as the point of departure, amplifies it and explores the ground for future work by engaging with other approaches and areas of research with which the Bloomington School has some affinities. This way of testing and extending the ideas and methods of the Ostroms is particularly appropriate since their research program, initiated and nurtured through the Workshop, has always been in-between different fields and sub-fields in the social sciences (political science, economics, public administration, law, history, anthropology), cultivating a strong interdisciplinary way of doing research and exploiting the virtuous circle between theory, analysis, model building, and empirical research. Engaging in a creative dialogue with ideas and methods of other research programs is a way of sharpening one's analytic tools, while renovating one's own vision of social research. This volume is a way of thinking through and beyond the Bloomington School. This book shares the experimental findings and views in current multidisciplinary medical science combining both basic and applied research aimed at resolving problematic health issues. The key topics address contagious diseases, in particular the epidemiology, clinical presentation, and management of influenza and influenza-like infections as well as brain tuberculosis. Pulmonary medicine is represented by articles addressing a range of practical issues, including the diagnosis, symptoms, comorbidities, and treatment of obstructive sleep apnea, a syndrome whose incidence shows a persistent upward trend worldwide. Other articles address the pathogenesis of air pollution toxicity and allergy and sensory irritation in toxic exposure studies. An

intriguing relation of atopic dermatitis to depression and serotonergic system is debated. The book attempts to integrate research into clinical work and to implement findings to improve care and to decrease suffering from diseases. It is dedicated to the practicing professionals, researchers, and all engaged in health care.

Advances in Agronomy, Volume 170, the latest release in this leading reference on agronomy, contains a variety of updates and highlights new advances in the field. Each chapter is written by an international board of authors. Includes numerous, timely, state-of-the-art reviews on the latest advancements in agronomy Features distinguished, well recognized authors from around the world Builds upon this venerable and iconic review series Covers the extensive variety and breadth of subject matter in the crop and soil sciences

Microbes are ubiquitous in nature, and plant-microbe interactions are a key strategy for colonizing diverse habitats. The plant microbiome (epiphytic, endophytic and rhizospheric) plays an important role in plant growth and development and soil health. Further, rhizospheric soil is a valuable natural resource, hosting hotspots of microbes, and is vital in the maintenance of global nutrient balance and ecosystem function. The term endophytic microbes refers to those microorganisms that colonize the interior the plants. The phyllosphere is a common niche for synergism between microbes and plants and includes the leaf surface. The diverse group of microbes are key components of soil-plant systems, and where they are engaged in an extensive network of interactions in the rhizosphere/endophytic/phyllospheric they have emerged as an important and promising tool for sustainable agriculture. Plant microbiomes help to directly or indirectly promote plant growth using plant growth promoting attributes, and could potentially be used as biofertilizers/bioinoculants in place of chemical fertilizers. This book allows readers to gain an understanding of microbial diversity associated with plant systems and their role in plant growth, and soil health. Offering an overview of the state of the art in plant microbiomes and their potential biotechnological applications in agriculture and allied sectors, it is a valuable resource for scientists, researchers and students in the field of microbiology, biotechnology, agriculture, molecular biology, environmental biology and related subjects.

This handbook addresses the issues and challenges of the delivery of social work education in the contemporary world. It provides an authoritative overview of the key debates, switching the lens away from a Western-centric focus to engage with a much broader audience in countries that are in the process of modernization and professionalization, alongside those where social work education is more developed. Chapters tackle major challenges with respect to curriculum, teaching, practice, and training in light of globalization, providing a thorough examination of the practice of social work in diverse contexts. This handbook presents a contribution to the process of knowledge exchange which is essential to global social work education. It brings together professional knowledge and lived experience, both universal and local, and aims to be an essential reference for social work educators, researchers, and students.

Contributed papers presented at the National Seminar on Integrated Pest Management.

This book explores basic and applied aspects of microorganisms, which have a unique ability to cope with abiotic stresses such as drought, salinity and changing climate, as well as biodegrader microorganisms and their functional roles. Further, readers will find detailed information on all aspects that are required to make a microbe "agriculturally beneficial." The book's primary focus is on microbes that are essentially "hidden miniature packages of nature" that influence agro-ecosystems. Inviting papers by prominent national and international scientists working in the field of agricultural microbiology, it addresses the biodegrader group of microbial inoculants. Each chapter covers the respective mechanism of action and recent advances in agricultural microbiology. In addition, the book especially highlights innovations involving agriculturally beneficial microorganisms, including strategies for coping with a changing climate, and methods for developing microbial inoculants and promoting climate-smart agriculture. The information presented here is based on the authors' extensive experience in the subject area, gathered in the course of their careers in the field of agricultural microbiology. The book offers a valuable resource for all readers who are actively involved in research on agriculturally beneficial microorganisms. In addition, it will help prepare readers for the future challenges that climate change will pose for agriculture and will help to bridge the current gaps between different scientific communities. A directory to the universities of the Commonwealth and the handbook of their association.

This is the first book to cover existing debates on decolonising and developmental social work whilst equipping readers with the understanding of how to translate the idea of decolonisation of social work into practice. Using new empirical data and an extensive detail of social, cultural, and political dimensions of Nepal, the author proposes a new model of 'decolonised and developmental social work' that can be applicable to a wide range of countries and cultures. By using interviews with Nepali social workers, this text goes beyond mere theoretical approaches and uniquely positions itself in a way that embraces rigorous bottom-up, grounded theory method. It will also further ongoing debates on globalisation-localisation, universalisation-contextualisation, outsider-insider perspectives, neoliberal-rights and justice oriented social work, and above all, colonisation-decolonisation of social work knowledge and practice. It also promotes solidarity of, and the struggle for, progress for those in the margins of Western social work and development narrative through an emerging theory-praxis of decolonised and developmental social work.

Decolonised and Developmental Social Work is essential reading for students, academics, and researchers of social work and development studies, as well as those striving for a decolonial worldview.

The way that humans organize both resource access and resource use is vital to the management of natural resources. Within different contexts, institutional arrangements (such as the rules of common and private property rights) become levers by which human behaviours can be modified and steered towards the goals of sustainable natural resource management. Featuring contributions from leading thinkers in the field, this groundbreaking volume examines institutional dynamics from the perspective of natural resource management. The book is organized into four parts. The first discusses institutional diversity and contextual change. Following this, institutional misfit is analysed with a strong focus on the long-term impacts of colonial structures in the Asia-Pacific region. The book then discusses experiences with institutional dynamics in order to ease the tension of such misfits before examining future research needs. Ultimately, through careful argument and by deploying original research, the authors make the case that institutional arrangements cannot be perceived as a set of parameters that can be optimized and locked in for the most

efficient functioning of a system; nor can institutions be evaluated outside the context in which they were developed. This is powerful, thought-provoking and important reading for academics, researchers, policy-makers and professionals in resource, institutional and environmental economics and land use planning and policy across the full range of natural resource sectors from forestry to agriculture. Published with CSIRO. Cover image: Blue Flower of Life (c) Theresa J. Richardson 2006

BIG DATA, ARTIFICIAL INTELLIGENCE AND DATA ANALYSIS SET Coordinated by Jacques Janssen Data analysis is a scientific field that continues to grow enormously, most notably over the last few decades, following rapid growth within the tech industry, as well as the wide applicability of computational techniques alongside new advances in analytic tools. Modeling enables data analysts to identify relationships, make predictions, and to understand, interpret and visualize the extracted information more strategically. This book includes the most recent advances on this topic, meeting increasing demand from wide circles of the scientific community. Applied Modeling Techniques and Data Analysis 2 is a collective work by a number of leading scientists, analysts, engineers, mathematicians and statisticians, working on the front end of data analysis and modeling applications. The chapters cover a cross section of current concerns and research interests in the above scientific areas. The collected material is divided into appropriate sections to provide the reader with both theoretical and applied information on data analysis methods, models and techniques, along with appropriate applications.

Soil fertility is the backbone of agricultural systems and plays a key role in determining food quantity and quality. In recent decades, soil fertility has decreased due to indiscriminate use of agrochemicals, and nations around the globe are now facing the challenge of increasing food production while sustainably maintaining soil fertility. Written by leading international scientists in the field, this book explores soil fertility management strategies, including agronomic, microbiological and soil-science based strategies. Highlighting the practices that can be incorporated into organic farming and discussing recent advances, it is a valuable resource for researchers wanting to broaden their vision and the scope of their investigations.

[Copyright: 60006aa1b6235aa0a911ebe7e7f0b300](https://www.doi.org/10.60006aa1b6235aa0a911ebe7e7f0b300)