The Kew Record of Taxonomic Literature Relating to Vascular Plants

The diversity of life

Fern Ecology

This book constitutes a unique, encyclopedic reference work that systematizes and categorizes for the first time in such comprehensive fashion all known fern spores. The dominant feature of the work are the over 350 plates of electron micrographs showing the morphological characteristics of typical representatives of each spore type. The purpose of the book is to provide a complete survey of the available data on the fine structure and composition, development, and evolutionary significance of different types of spore walls, which have proven resistant to fossilization throughout geological ages. The classification system developed by the authors as the result of many years of research will be a point of reference, if not "the" systematic basis, for all future publication on the subject. The book will be of great interest to all botanists and evolutionary biologists working with spores and/or ferns, but it will also be of major importance to paleobotanists, palynologists, stratigraphers, and exploration geologists, since the focus of this treatise is on spores as highly adapted and longlived reproductive forms.

Botany for Degree Students: Fungi (Revised Multi-Colour Edition)

"A Text book of Botany: Diversity of Microbes" has been written with the feeling that it will usefully serve the purpose of B.Sc. students. Basic as well as modern views are considered. Informative & understandable diagrams have been incorporated in this book. The content is very simple. In preparation of book many books & papers have been consulted. I hope that this book will continue to serve its purpose in understanding the basic principles of Botany & securing at the same time maximum marks in examination by the students.

Botany for Degree Students - Year I

Introduction to Environment, Biodiversity and Climate Change

Environment includes air, water, land and the inter relationship between air water, land and human beings and other living creatures, plants micro-organisms and property. Environment effects the wellbeing of man, animal and plants world over. Man is more advanced in intellect and hence it is the...
duty of man to protect the environment from undesired pollutions. The book discusses various aspects of Global warming, climate change, health hazards, dwindling of forest, water resources and natural resources and stress on biological diversity. Note: T&F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

Phytomorphology

Neotropical Diversification: Patterns and Processes

The Kew Record of Taxonomic Literature Relating to Vascular Plants for PTERIDOPHYTA During its 40 years of existence A Textbook of Botany, a multi-volume work, has established itself as a student-friendly book that explains the intricacies of botany in a very simple and interesting manner. The book was originally written for undergraduate students but over the years it has also proved helpful to postgraduates and those taking competitive examinations. The book has been revised extensively to include the latest discoveries and innovations in botany.

NEW IN THIS EDITION
• Life cycles of Osmunda, Adiantum and Gleichenia added.
• Topics like "Bryophyta as Indicators of Pollution" and "Peristome in Bryales" added.
• New and bigger format.

Text Book Of Botany Diversity Of Microbes And Cryptogams

A unique addition to the botanical literature, this book presents the flora of China in its astonishing diversity.

Pteridophytes and Gymnosperms
Biodiversity is the variety of life in a given range. Today, the world is under tremendous threat of unprecedented loss of biodiversity. Issues like global warming, environmental pollution, recurrent natural calamities and human population rise are of major concern for scientists all over the world. The second edition of the book covers a complete range of the topics pertaining to the subject such as meaning of biodiversity, its history, importance of species diversity, systematics, determination of status of bioresources, pattern of distribution of global species, genetic diversity and ecosystem diversity. It also elaborates on various drivers that lead to biodiversity loss and its impact on global climate. Moreover, the topics on biopiracy, related laws and policies, and the importance of indigenous knowledge of several communities are also described in the text. The use of biotechnology-based methods and various measures to preserve natural resources and conserve biodiversity is the highlight of the text.

Moreover, the book provides a detailed account of the conservation measures of biodiversity, especially those implemented by the government. This book is primarily designed for the undergraduate and postgraduate students of Environmental Science, Zoology and Botany. Besides, it will also be useful for postgraduate diploma or other professional courses in Environmental Science and also for the researchers.

NEW TO THE SECOND EDITION
• ‘Project Tiger’ and ‘Project Elephant’ are introduced in the chapter on Conservation Practice.
• Various sections have been revised and updated throughout the book.
• A few figures have been added and many others have been replaced for better illustration.

KEY FEATURES
• Explains the contemporary topics such as green accounting and sustainable management of natural resources in an easy-to-understand manner.
• Incorporates a number of photographs, flow charts, diagrams and tables.
• Provides chapter-end review questions to help students check their understanding of the subject.
• Includes MCQs (with answers given at the end of the book).
• Gives an elaborate glossary of technical terms to acquaint the students with the related terminologies.

Indian Books in Print
The present book is for B.Sc(I) yr, strictly based on UGC Model syllabus for all Indian Universities. Each unit or chapter as the case may be is followed by various types of questions, such as very short, short, long answer questions, diagrammatic questions and multiple choice questions, asked repeatedly questions have been included.

An Introduction to Botany

The Plants of China
This encyclopedia offers access to the diversity of ferns and seed plants, the most important groups of green land plants. Available information of general and systematic relevance is synthesized at the level of families. Evidence from virtually all disciplines important to modern taxonomy makes the work a most valuable source of reference not only for taxonomists, but for all who are interested in the various aspects of plant diversity. A revised classification includes a complete inventory of genera along with their diagnostic features, keys for identification, and references to the literature. The first volume deals with pteridophytes and gymnosperms.
Plant Biodiversity This book “Biodiversity of lianas” under the series “Sustainable development and Biodiversity” is unique as it covers a wide array of topics in this subject covering all continents and will constitute a valuable reference material for students, researchers and forest managers who are concerned with biodiversity, forest ecology and sustainable development of forest resources. It contains peer-reviewed chapters from leading academicians and researchers around the world in the field of Plant Ecology, Taxonomy and related areas of Biodiversity Science but, centered on Lianology and includes original research articles, case studies and reviews (regional and global) in biodiversity, ecology and phytoecography and conservation of lianas from temperate, sub-tropical and tropical forests. The interest in lianas has increased over the last two decades. The ultimate goal of this book is to provide an insight into the patterns of liana diversity, distribution, the role of lianas in structuring forest community, and functional ecology (carbon uptake, ecosystem services, dynamics and invasion), biotechnological tool for conservation of lianas and finally summarizes the significance and the need for conservation of lianas in the changing global environmental scenario.

Introduction to Biodiversity This book provides a comprehensive overview of the patterns of biodiversity in various neotropical ecosystems, as well as a discussion on their historical biogeographies and underlying diversification processes. All chapters were written by prominent researchers in the fields of tropical biology, molecular ecology, climatology, paleoecology, and geography, producing an outstanding collection of essays, synthetic analyses, and novel investigations that describe and improve our understanding of the biodiversity of this unique region. With chapters on the Amazon and Caribbean forests, the Atlantic rainforests, the Andes, the Cerrado savannahs, the Caatinga drylands, the Chaco, and Mesoamerica – along with broad taxonomic coverage – this book summarizes a wide range of hypotheses, views, and methods concerning the processes and mechanisms of neotropical diversification. The range of perspectives presented makes the book a truly comprehensive, state-of-the-art publication on the topic, which will fascinate both scientists and general readers alike.

Books of India Ferns are an integral part of the world’s flora, appreciated for their beauty as ornamentals, problematic as invaders and endangered by human interference. They often dominate forest understories but also colonize open areas, invade waterways and survive in nutrient-poor wastelands and eroded pastures. Presented here is the first comprehensive summary of fern ecology, with worldwide examples from Siberia to the islands of Hawaii. Topics include a brief history of the ecological study of ferns, a global survey of fern biogeography, fern population dynamics, the role of ferns in ecosystem nutrient cycles, their adaptations to xeric environments and future directions in fern ecology. Fully illustrated concepts and processes provide a framework for future research and utilization of ferns for graduate students and professionals in ecology, conservation and land management.

Spores of the Pteridophyta Pteridophyta is designed to fulfill the needs of undergraduate and postgraduate students of Botany. The current trends in the subject are explained in a simple, lucid and understandable writing style. This book, containing a wide variety of topics discussed extensively along with a large number of review questions in every chapter, would surely be helpful to students desirous of enhancing their knowledge in botany. feature • Covers new and modern topics • Threatened Pteridophytes of India: Handle them with Care • Nuclear DNA Amounts in Pteridophytes Four application-based chapters • Economic Importance of Pteridophytes • Classification of Pteridophytes • Cytogenetics: Polyploidy, Chromosome Number and Organelle Genome • Morphogenesis: Spore, Prothallus, Sexuality and Sporophyte

Pteridophyta of Peru


An Introduction to Phytoplanktons: Diversity and Ecology

Bibliography on Indian Pteridology This well timed volume features a selection of chapters composed by experts in their respective fields. It covers a broad range of topics, from its fundamental biology to the fern’s population genetics and environmental and therapeutic applications.
Biodiversity


Freshwater Animal Diversity Assessment

The Botanica Results of regular monitoring of the species diversity and structure of plant communities is used by conservation biologists to help understand impacts of perturbations caused by humans and other environmental factors on ecosystems worldwide. Changes in plant communities can, for example, be a reflection of increased levels of pollution, a response to long-term climate change, or the result of shifts in land-use practices by the human population. This book presents a series of essays on the application of plant biodiversity monitoring and assessment to help prevent species extinction, ecosystem collapse, and solve problems in biodiversity conservation. It has been written by a large international team of researchers and uses case studies and examples from all over the world, and from a broad range of terrestrial and aquatic ecosystems. The book is aimed at any graduate students and researchers with a strong interest in plant biodiversity monitoring and assessment, plant community ecology, biodiversity conservation, and the environmental impacts of human activities on ecosystems.

Perspectives in Environment

An Introduction to Pteridophyta

A Text Book of Botany: Diversity of Microbes This comprehensive and well known textbook deals with the characteristics, classification and life cycle of different species of fungi. While it provides a detailed account of bacteria, viruses, mycoplasma and lichens, it also discusses elementary plant pathology.

Working with Ferns

An Introduction to Pteridophyta This book offers a comprehensive study of species- and genus-level diversity and chorology of the global freshwater fauna to date. It gives a state of the art assessment of the diversity and distribution of Metazoa in the continental waters of the world.

An Introduction to Pteridophyta

Biodiversity, Evolution and Biogeography of Plants The book, 'An Introduction to Phytoplanktons - Diversity and Ecology' is very useful as it covers wide aspects of phytoplankton study including the general idea about cyanobacteria and algal kingdom. It contains different topics related to very basic idea of phytoplanktons such as, types, taxonomic description and the key for identification etc. Together with it, very modern aspects of phytoplankton study including different methodologies needed for research students of botany, ecology, limnology and environmental biology are also included. The first chapter is very basic and informative and describes algal and phytoplankton classification, algal pigments, algal bloom and their control, algal toxins, wetlands algae, ecological significance of phytoplanktons etc. A general key for identification of common phytoplankton genera is also included for students who will be able to identify these genera based on the light microscopic characters. In Chapters 2-4, different aspects of phytoplankton research like primary productivity, community pattern analysis and their ecological parameter analysis have been discussed with detailed procedures. Statistical analysis is also discussed in detail. Chapter 5 includes case studies related to review,
phytoplankton diversity and dynamics.

Biodiversity of Lianas

The Kew Record of Taxonomic Literature

Plant Resources of South-East Asia

University Botany I : (Algae, Fungi, Bryophyta And Pteridophyta)

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