

ROBERT L. DRESSLER

The Orchids

NATURAL HISTORY AND CLASSIFICATION



The Orchids Natural History And Classification

Alec M. Pridgeon



The Orchids Natural History And Classification:

The Orchids Robert L. Dressler, 1981 Reprint of the 1981 Smithsonian edition with a new taxonomy note by Dressler Contains fine reproductions of the original 95 plates on 16 pages Annotation copyrighted by Book News Inc Portland OR

The Natural History of Flowers Michael Fogden, Patricia Fogden, 2018-09-05 Flowers have played an important role in human culture and survival for thousands of years The final products of flowers fruits and seeds are vitally important as food Flowers provide bursts of color to homes and gardens and they symbolize love sorrow and renewal Yet we often overlook their real purpose Why do flowers exist and why do they have certain colors shapes and smells What function does a flower have in the life and survival of the plants themselves In nature flowers play an essential role in improving a plant's chances of survival Some flowers are pollinated by wind or water but most are designed to attract and reward pollinators such as bees butterflies birds and bats to carry their pollen from flower to flower After being pollinated flowers produce fruits and again take advantage of wind water and animals to disperse their seeds ensuring a new generation of their species Pollination and seed dispersal are fine tuned systems and their importance in sustaining a healthy environment cannot be overstated And as ongoing climate and other environmental changes apply new pressures flowers must continue to adapt in order to survive In this beautifully illustrated book with over 200 stunning photographs Michael Fogden and Patricia Fogden draw from existing research and their extensive field experiences all over the world to present a detailed but accessible introduction to the natural history of flowers They discuss a representative sample of flowering and fruiting strategies illustrating interactions between plants and their pollinators and dispersers and conclude with descriptions of their favorite tropical flowers *The Natural History of Inbreeding and Outbreeding* Nancy Wilmsen Thornhill, 1993-08-15 Inbreeding the mating of close kin and outbreeding the mating of distant relatives or unrelated organisms have long been important subjects to evolutionary biologists Inbreeding reduces genetic diversity in a population increasing the likelihood that genetic defects will become widespread and deprive a population of the diversity it may need to cope with its environment Most plants and animals have evolved behavioral and morphological mechanisms to avoid inbreeding However today many endangered species exist only in small very isolated populations where inbreeding is unavoidable so it has become a concern for conservationists In this volume twenty six experts in evolution behavior and genetics examine the causes and consequences of inbreeding The authors ask whether inbreeding is as problematic as biologists have thought under what ecological conditions inbreeding occurs and whether organisms that inbreed have mechanisms to dampen the anticipated problems of reduced genetic variation The studies including theoretical and empirical work on wild and captive populations demonstrate that many plants and animals inbreed to a greater extent than biologists have thought with variable effects on individual fitness Graduate students and researchers in evolutionary biology animal behavior ecology and conservation biology will welcome this wide ranging collection Ecology and Natural History of Tropical Bees David W. Roubik, David Ward Roubik, 1992-05-29

Humans have been fascinated by bees for centuries. Bees display a wide spectrum of behaviours and ecological roles that have provided biologists with a vast amount of material for study. Among the types observed are both social and solitary bees, those that either pollinate or destroy flowers, and those that display traits allowing them to survive underwater. Others fly mainly at night and some build their nests either in the ground or in the tallest rain forest trees. This highly acclaimed book summarises and interprets research from around the world on tropical bee diversity and draws together major themes in ecology, natural history, and evolution. The numerous photographs and line illustrations and the large reference section qualify this book as a field guide and reference for workers in tropical and temperate research. The fascinating ecology and natural history of these bees will also provide absorbing reading for other ecologists and naturalists. This book was first published in 1989.

The Pollination Biology of North American Orchids: Volume 1 Charles L. Argue, 2011-09-30. Recent studies have revealed remarkable complexity and diversity in orchid pollinator relationships. These studies comprise a vast literature currently scattered in numerous, often obscure, journals and books. *The Pollination Biology of North American Orchids* brings together for the first time a comprehensive treatment of this information for all native and introduced North American orchids found north of Mexico and Florida. It provides detailed information on genetic compatibility, breeding systems, pollinators, pollination mechanisms, fruiting success, and limiting factors for each species. Distribution, habitat, and floral morphology are also summarized. In addition, detailed line drawings emphasize orchid reproductive organs and their adaptation to known pollinators. This, the first of two volumes, furnishes a brief introduction to the general morphology of the orchid flower and the terminology used to describe orchid breeding systems and reproductive strategies. It treats the lady's slippers of genus *Cypripedium*, subfamily *Cypripedioideae*, and nine genera of the subfamily *Orchidoideae*, including the diverse rein orchids of genus *Platanthera*. *The Pollination Biology of North American Orchids* will be of interest to both regional and international audiences, including researchers and students in this field of study who are currently required to search through the scattered literature to obtain the information gathered here. Researchers and students in related fields with an interest in the co-evolution of plants and insects, conservation specialists who need to understand both the details of orchid reproduction and the identity of primary pollinators in order to properly manage the land for both orchid breeders who require accurate and current information on orchid breeding systems, and general readers with an interest in orchid biology.

Charles Argue, Ph.D., is a plant biologist at the University of Minnesota, specializing in the study of pollen grains. His articles have appeared in numerous journals, including the *American Journal of Botany*, *International Journal of Plant Sciences*, formerly *Botanical Gazette*, *Botany*, formerly *Canadian Journal of Botany*, *Grana*, *Pollen et Spores*, *North American Native Orchid Journal*, *The Native Orchid Conference Journal*, *Fremontia*, and as chapters in a number of books.

Genera Orchidacearum: Volume 1: Apostasioideae and Cypripedioideae Alec M. Pridgeon, 1999-08-19. Because of the sheer size and cosmopolitan distribution of the family, the fifth volume treats 186 genera in the tribe *Cymbidieae* of the largest subfamily.

Epidendroideae including some of the showiest orchids often used in hybridizing Comprehensive treatments are provided for each genus which include complete nomenclature description distribution with map anatomy palynology cytogenetics phytochemistry phylogenetics pollination ecology and economic uses Cultivation notes are included for those genera known to be in hobbyist collections Genera are beautifully illustrated with line drawings and colour photographs Book Jacket

The Orchid Flora of Taiwan: A Collection of Line Drawings Tsan-Piao Lin, 2019-12-01 The history of written records of native orchids in Taiwan began in 1857 with a British botanist After more than 160 years of study by European Japanese and Taiwanese scholars and enthusiasts the list of native orchids increased to more than 470 species including natural hybrids and varieties The author exerted extensive efforts to include all known species in this work and arranged them based on the order of subfamilies Scientific names synonyms and relevant references are provided for each species Many of the species are provided with additional explanations in the note section The uniqueness of this book is the line drawing illustrations which emphasize the structure of the column In total 500 figures are presented to accompany the species descriptions These extensive line drawings were accumulated since 1971 and were mostly drawn by the author More than that this book also presents the gynostemium structure of more than 380 species including the stigma pollinium rostellum and column in high resolution color plates

The Pollination Biology of North American Orchids: Volume 2 Charles L. Argue, 2011-09-21 Recent studies have revealed remarkable complexity and diversity in orchid pollinator relationships These studies comprise a vast literature currently scattered in numerous often obscure journals and books The Pollination Biology of North American Orchids brings together for the first time a comprehensive treatment of this information for all native and introduced North American orchids found north of Mexico and Florida It provides detailed information on genetic compatibility breeding systems pollinators pollination mechanisms fruiting success and limiting factors for each species Distribution habitat and floral morphology are also summarized In addition detailed line drawings emphasize orchid reproductive organs and their adaptation to known pollinators This the second of two volumes treats the subfamily Orchidoideae with the tribe Cranichideae This is followed by examination of the seven North American tribes of subfamily Epidendroideae and the single North American tribe of subfamily Vanilloideae The Pollination Biology of North American Orchids will be of interest to both regional and international audiences including Researchers and students in this field of study who are currently required to search through the scattered literature to obtain the information gathered here Researchers and students in related fields with an interest in the co evolution of plants and insects Conservation specialists who need to understand both the details of orchid reproduction and the identity of primary pollinators in order to properly manage the land for both Orchid breeders who require accurate and current information on orchid breeding systems General readers with an interest in orchid biology Charles Argue Ph D is a plant biologist at the University of Minnesota specializing in the study of pollen grains His articles have appeared in numerous journals including the American Journal of Botany International Journal of Plant Sciences

formerly Botanical Gazette Botany formerly Canadian Journal of Botany Grana Pollen et Spores North American Native Orchid Journal The Native Orchid Conference Journal Fremontia and as chapters in a number of books **The Orchids of Peninsular Malaysia and Singapore** Gunnar Seidenfaden, Jeffrey J. Wood, 1992 **Atlas of Chinese Native Orchids** Xiaohua Jin, Jianwu Li, Deping Ye, 2023-12-05 This book updates taxonomy information of orchids in China China is one of the countries with the richest biodiversity In China all five subfamilies of Orchidaceae are represented about 1600 orchid species in 198 genera All orchids are rare and endangered plants They are among the flagships for biological conservation listed in CITES appendix I or II This book provided an updated classification system of Orchidaceae with newly recorded and published species in China and new combinations 1026 species in 157 genera of native species in China are included about half of which are newly recorded or published species in China in the last two decades Indexes to genera and species are included For each species one to four photos most of which were taken by the authors are utilized to illustrate habitats morphological characters and phenology Furthermore the geographic distribution of them also demonstrated in a map This book can be used as a reference for researchers working on Orchidaceae as well as practitioners in the horticulture community

The Orchids Natural History And Classification Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**The Orchids Natural History And Classification**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents The Orchids Natural History And Classification

1. Understanding the eBook The Orchids Natural History And Classification
 - The Rise of Digital Reading The Orchids Natural History And Classification
 - Advantages of eBooks Over Traditional Books
2. Identifying The Orchids Natural History And Classification
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Orchids Natural History And Classification
 - Personalized Recommendations
 - The Orchids Natural History And Classification User Reviews and Ratings
 - The Orchids Natural History And Classification and Bestseller Lists

5. Accessing The Orchids Natural History And Classification Free and Paid eBooks
 - The Orchids Natural History And Classification Public Domain eBooks
 - The Orchids Natural History And Classification eBook Subscription Services
 - The Orchids Natural History And Classification Budget-Friendly Options
6. Navigating The Orchids Natural History And Classification eBook Formats
 - ePub, PDF, MOBI, and More
 - The Orchids Natural History And Classification Compatibility with Devices
 - The Orchids Natural History And Classification Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Orchids Natural History And Classification
 - Highlighting and Note-Taking The Orchids Natural History And Classification
 - Interactive Elements The Orchids Natural History And Classification
8. Staying Engaged with The Orchids Natural History And Classification
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Orchids Natural History And Classification
9. Balancing eBooks and Physical Books The Orchids Natural History And Classification
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Orchids Natural History And Classification
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine The Orchids Natural History And Classification
 - Setting Reading Goals The Orchids Natural History And Classification
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of The Orchids Natural History And Classification
 - Fact-Checking eBook Content of The Orchids Natural History And Classification
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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