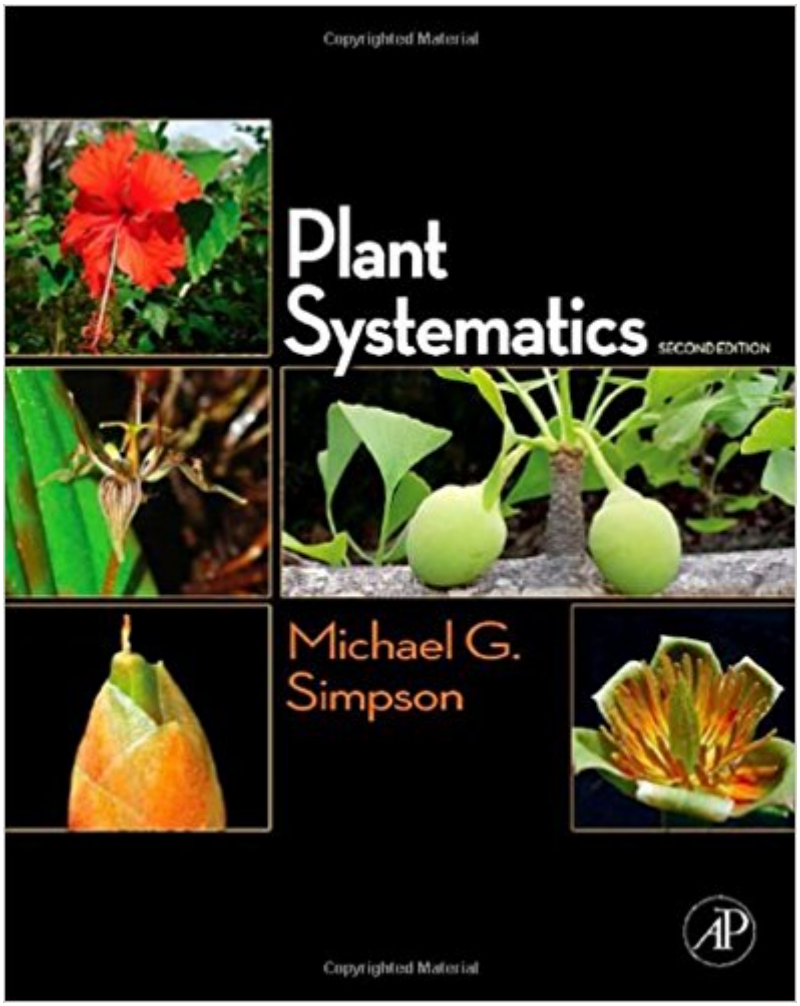
Plant Systematics, Second Edition



Synopsis

Plant Systematics, Second Edition, provides the basis for teaching an introduction to the morphology, evolution, and classification of land plants. It presents a foundation of the approach, methods, research goals, evidence, and terminology of plant systematics, along with the most recent knowledge of evolutionary relationships of plants and practical information vital to the field. This updated edition has been expanded to include 15 fern families, 9 gymnosperm families, and increased angiosperm family treatments from 100 to 129. Each family description includes a plate of full color photographs, illustrating exemplars of the group along with dissected and labeled material to show diagnostic features. The book includes a new chapter on species concepts and the role and impact of plant systematics in conservation biology, and a new appendix on statistical and morphometric techniques in plant systematics. It also contains more detailed explanations of maximum likelihood and Bayesian phylogeny inference methods, an expanded coverage and glossary of morphological terms, and an updated chapter on botanical nomenclature. This book is recommended for graduate and undergraduate students in botany, plant taxonomy, plant systematics, plant pathology, plant anatomy, and ecology as well as scientists and researchers in any of the plant sciences.The second edition of Plant Systematics has been expanded to include: Fifteen fern families, 9 gymnosperm families, and an increase of angiosperm family treatments from 100 to 129. Each family description includes a plate of full color photographs, illustrating exemplars of the group along with dissected and labeled material to show diagnostic featuresA new chapter on species concepts and the role and impact of plant systematics in conservation biologyA new appendix on statistical and morphometric techniques in plant systematicsIn addition, the second edition contains more detailed explanations of maximum likelihood and Bayesian phylogeny inference methods, an expanded coverage and glossary of morphological terms, and an updated chapter on botanical nomenclature

Book Information

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Customer Reviews

Praise for the first edition: "This publication, many years in the making, represents a masterly treatment of vascular plant groups and the principles of plant systematics as well as incorporating the latest concepts in phylogenetics and methodologies. It is erudite and most importantly - user friendly, especially students. This text will serve as the standard for many years to come." Ã¢â ¬â œ Botanical Society of America

Dr. Michael G. Simpson has been a professor of Biology at San Diego State University since 1986. His area of expertise is plant systematics, dealing with the description, identification, naming and classification of plants with the overriding goal of inferring the pattern of evolutionary history (phylogeny). Dr. Simpson has taught courses in Principles of Organismal Biology, Plant Systematics, Taxonomy of California Plants, Economic Botany, Genetics and Evolution, and Seminar in Systematics and Evolution. Additionally, he serves as the Curator of the SDSU Herbarium where he oversees the maintenance, organization, and use of the collection and facilitates additions to the herbarium. Currently, his field work in Chile and Argentina is supported in part by the National Geographic Society. In addition to publishing numerous articles in technical journals, Dr. Simpson has authored of the widely used textbook Plant Systematics (Elsevier-Academic Press, 2006; 2nd ed. 2010.)

Arrived on-time, before the start of class. Has everything you need to learn about plants and botany. After enrolling in MGS’s course(s), you will appreciate and have a better perspective in the world of biology, plants, botany. Overall, an excellent book examining the in-depth functions of plants, very good for a college student enrolled in a plant biology course or if you are very interested in the field of plant life.

It’s a great book for students and teachers of botany and systematics. A "must have" for sure! It contains all the important orders and families of plants.

The book provides a broad approach to plant systematics and therefore a little superficial. It is nicely illustrated, which assist in the understanding of the topics. Recommended for beginners or more generic queries in this line.

Nice book.....

It gets 5 stars simply because it’s kind of hard to screw up a kindle book. I hate the subject but needed the class. The search feature works, the text is readable, the pictures are clear. What else is there to say?

The second edition has about 100 more pages than the first. I have found the diagrams and overall information clear and helpful. A great textbook for plant systematics.

a very helpful book, but in the kindle format the diagrams and figures are too small to make out. and since that is sixxty percent of the information, the reader is deprived of fully understanding.

I downloaded the free trial of this book. It looks like it has a lot of great information and illustrations. Unfortunately, all of the illustration images are of such poor quality that they are nearly impossible to read. Even when you click to zoom on the image, image quality remains poor. I would buy this book IF image quality of the illustrations was improved.

Geraniums (The Plant LoverÃ¢ ¬â„¢s Guides) The Plant Lover’s Guide to Salvias (The Plant LoverÃ¢ ¬â„¢s Guides) The Plant Lover’s Guide to Ferns (The Plant LoverÃ¢ ¬â„¢s Guides) The Plant Lover’s Guide to Clematis (The Plant LoverÃ¢ ¬â„¢s Guides) The Perennial Care Manual: A Plant-by-Plant Guide: What to Do & When to Do It