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phloem works Xylem \u0026
Phloem (Live) 12: Plant water
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to provide an integrated
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an anatomical and functional
point of view. The second edition
opens with the three-dimensional
aspects of wood anatomy. ...

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forest products at this time have attained a new importance as renewable resources available in vast quantities. The scope of the series is intended to be wide, and virtually all aspects of wood science and technology will be considered. Topics will include the structure of wood and bark and the chemistry of their various components, the physical and mechanical properties of wood, its formation and biodegradation, the processing of forest products, the utilization of the forest biomass, and the manufacture of pulp and paper. Some of the volumes in this series are intended to be textbooks, but most will be monographs concerned with a limited subject area that will be treated in depth.

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The majority will have only one author. The books will be written by recognized experts, and will reflect the most recent information available. It is my hope that they will serve the purpose of drawing attention to wood, one of the most remarkable and useful of all natural materials.

When WILHELM RUHLAND developed his plan for an Encyclopedia of Plant Physiology more than three decades ago, biology could still be conveniently subdivided into classical areas. Even within plant physiology, subdivisions were not too difficult to make, and general principles could be covered sufficiently in the two introductory volumes of

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the Encyclopedia on the physical and chemical basis of cell biology. But the situation changed rapidly even during the 12-year publication period of the Encyclopedia (1955-1967). The new molecular direction of genetics and structural research on biopolymers had an integrating effect on all other biological fields, including plant physiology, and it became increasingly difficult to keep previously distinct areas separated. RUHLAND'S overall plan included 18 volumes and about 22,000 pages. It covered the entire field of plant physiology, in most cases from the very beginning. But, as each volume appeared, it was clear that its content would soon be

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The first edition of this book was the first to provide an integrated description of sap ascension from an anatomical and functional point of view. The second edition opens with the three-dimensional aspects of wood anatomy. The cohesion-tension theory and new evidence are introduced in response to recent controversies over the mechanism of sap ascent in plants. The physiology, anatomy and biophysics of xylem dysfunction are discussed and new insights into hydraulic architecture are reviewed with special emphasis on physiological limits on maximum transpiration and how hydraulic architecture limits gas exchange, carbon gain

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and growth of plants. The text concludes with a description of xylem failure and pathology. The book highlights fascinating areas of current research with the aim to stimulate more work in the future.

On the occasion of the 50th Anniversary of the International Association of Wood Anatomists several symposia were held during the 13th International Botanical Congress in Sydney, August 1981. Extended versions of most of the invited papers presented there, and some additional papers on aspects which could not be included in the congress program constitute the contents of this book, which intentionally received the

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pretentious title 'New Perspectives in Wood Anatomy'. To some readers it may seem a paradox that under this heading papers on a diversity of partly traditional wood anatomical subjects are assembled, even including two with a historical emphasis. However, a study of the history of wood anatomy and of how students of that discipline joined forces in an international association, brings to light many facts and views which deserve the attention of present day and future wood scientists as a potential source of inspiration for their research and organisational work.

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The book will describe the xylem structure of different plant groups, and will put the findings in a physiological and ecological context. For instance, when differences in vessel diameter are featured, then there will be an explanation why this matters for water transport efficiency and safety from cavitation. The focus is on the hydraulic function of

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xylem, although mechanical support and storage will also be covered. Featured plant groups include ferns (which only have primary xylem), conifers (tracheid-based xylem), lianas (extremely wide and long vessels), drought-adapted shrubs as well as the model systems poplar and grapevine. The book chapters will draw on the expertise and cutting edge research of a diversified group of internationally known researchers working in different anatomical and physiological sub-disciplines. Over the last two decades, much progress has been made in understanding how xylem structure relates to plant function. Implications for other timely topics such as drought-induced forest dieback or the

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regulation of plant biomass
production will be discussed.

The book is intended as a guide for molecular biology students, equipping them to successfully study plants. It pursues a holistic approach, viewing the whole plant as an integrated operating organism, and is written in a straightforward manner, making it appealing to anyone interested in plants. Further, it reflects the latest findings for scientists and students in the fields of plant sciences, biology, agriculture, forestry, ecology, vascular medicine and cancer, discussing e.g. how hormonal signals induce and regulate simple and complex patterns in plants vascular tissues, their adaptation and

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evolution; written by a world-renowned expert who has worked in the field for 50 years; covers the field from the initial studies conducted more than a century ago up to recent studies with up-to-date explanations; describes in details the structure, development, physiology and basic molecular biology of plants' vascular tissues, their function, regeneration and environmental adaptation; explores the controlling mechanisms of plant vascular differentiation by continuously moving hormonal signals and their precursors; discusses the regulation of stem cells and cambium, control of gradients in vascular cell size along the plant, juvenile-adult transition and rejuvenation,

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grafting, mechanisms of recovery from bending by reaction wood, evolution of vessels and fibers from tracheids, regulation of ring-porous wood evolution, protecting mechanisms against insects and pathogens, parasitism, plant cancer, and more; helps readers understand the scope and breadth of plant vascular systems in 20 detailed, high-quality chapters; includes a wealth of outstanding original color photographs and illustrations documenting the formation of vascular tissues; provides an in-depth understanding of plant biology by studying their vascular tissues.

Woody plants such as trees have a significant economic and

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Climatic influence on global economies and ecologies. This completely revised classic book is an up-to-date synthesis of the intensive research devoted to woody plants published in the second edition, with additional important aspects from the authors' previous book, *Growth Control in Woody Plants*. Intended primarily as a reference for researchers, the interdisciplinary nature of the book makes it useful to a broad range of scientists and researchers from agroforesters, agronomists, and arborists to plant pathologists and soil scientists. This third edition provides crucial updates to many chapters, including: responses of plants to elevated CO₂; the process and regulation of cambial

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Incorporate in discussion of the role of expansion proteins in plant growth; mechanism of ATP production by coupling factor in photosynthesis; the role of cellulose synthase in cell wall construction; structure-function relationships for aquaporin proteins

This revision of the now classic Plant Anatomy offers a completely updated review of the structure, function, and development of meristems, cells, and tissues of the plant body. The text follows a logical structure-based organization. Beginning with a general overview, chapters then cover the protoplast, cell wall, and meristems, through to phloem, periderm, and secretory

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There are few more iconic texts in botany than Esau's Plant Anatomy... this 3rd edition is a very worthy successor to previous editions..." ANNALS OF BOTANY, June 2007

Comprehensive coverage of the principles, mechanism, chemistry and application of guttation in plants.

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