



# Transport and Transfer Process in Plants

*I.F. Woodlow*

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Transport and Transfer Processes in Plants presents the proceedings of a symposium held in Canberra, Australia, in December 1975 under the auspices of the U.S.-Australia Agreement for Scientific and Technical Cooperation. It explores how organic materials and nutrients are distributed in plants and how plants are influenced by the interactions between various forms of both long- and short-distance transport. The book also considers how environmental factors regulate plant growth, how nutrients may be used in a more efficient manner, and how plants acquire disease.

Divided into three parts encompassing 39 chapters, this book begins with an overview of the mechanisms underlying transport and distribution in plants; the effect of phloem capacity on plant growth and development; and short-distance transfer. It then introduces the reader to plasmodesmata and symplastic transport; how flow affects solute transport in plants; cytoplasmic streaming in characean algae; occurrence and function of transfer cells; movement of solutes from host to parasite in nematode infected roots; and nutrient uptake by roots and transport to the xylem. The book also discusses symplastic transport and ion release to the xylem; regulation of nutrient uptake by cells and roots; transfer of ions and products of photosynthesis to guard cells; and vascular patterns in higher plants. It considers histochemical approaches to water-soluble compounds and their use in addressing problems of translocation; long-distance movement of tobacco mosaic virus in *Nicotiana glutinosa*; the influence of stomatal behavior on long-distance transport; and water transport through plants.

This book will be a valuable resource for scientists, students, and researchers.

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