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*Proceedings -- Parallel Computing.
Desiccation tolerance was essential
when plants first began to conquer
land, roughly 400 million years ago.*

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While most desiccation-tolerant plants belong to basal phylogenetic taxa, this capacity has also evolved among some vascular plant species. In this volume renowned experts treat plant desiccation tolerance at the organismic as well as at the cellular level. The diversity of

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ecophysiological adaptations and acclimations of cyanobacteria, eukaryotic algae, mosses, and lichens is addressed in several chapters. The particular problems of vascular plants during dehydration/rehydration cycles resulting not only from their hydraulic architectures, but also from

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severe secondary stresses associated with the desiccated state are discussed. Based on the treatment of desiccation tolerance at the organismic level, a second section of the book is devoted to the cell biological level. It delineates the general concepts of functional

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genomics, epigenetics, genetics, molecular biology and the sensing and signalling networks of systems biology involved in dehydration/rehydration cycles. This book provides an invaluable compilation of current knowledge, which is a prerequisite for a better

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understanding of plant desiccation tolerance in natural as well as agro- and forest ecosystems where water is one of the most essential resources. Rely on the #1 Guide to Pump Design and Application-- Now Updated with the Latest Technological Breakthroughs Long-established as

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the leading guide to pump design and application, the Pump Handbook has been fully revised and updated with the latest developments in pump technology. Packed with 1,150 detailed illustrations and written by a team of over 100 internationally renowned pump experts, this vital

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tool shows you how to select, purchase, install, operate, maintain, and troubleshoot cutting-edge pumps for all types of uses. The Fourth Edition of the Pump Handbook features: State-of-the-art guidance on every aspect of pump theory, design, application, and technology Over 100

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*internationally renowned contributors
SI units used throughout the book
New sections on centrifugal pump
mechanical performance, flow
analysis, bearings, adjustable-speed
drives, and application to cryogenic
LNG services; completely revised
sections on pump theory, mechanical*

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seals, intakes and suction piping, gears, and waterhammer; application to pulp and paper mills Inside This Updated Guide to Pump Technology • Classification and Selection of Pumps • Centrifugal Pumps • Displacement Pumps • Solids Pumping • Pump Sealing • Pump Bearings • Jet Pumps

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• *Materials of Construction* • *Pump Drivers and Power Transmission* • *Pump Noise* • *Pump Systems* • *Pump Services* • *Intakes and Suction Piping* • *Selecting and Purchasing Pumps* • *Installation, Operation, and Maintenance* • *Pump Testing* • *Technical Data*

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Pumping Station Design, Second Edition shows how to apply the fundamentals of various disciplines and subjects to produce a well-integrated pumping station that will be reliable, easy to operate and maintain, and free from design mistakes. In a field where

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inappropriate design can be extremely costly for any of the foregoing reasons, there is simply no excuse for not taking expert advice from this book. The content of this second edition has been thoroughly reviewed and approved by many qualified experts. The depth of

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experience and expertise of each contributor makes the second edition of Pumping Station Design an essential addition to the bookshelves of anyone in the field.

Some Case Histories

Guttation: Fundamentals and Applications

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*Secondary Xylem Biology
New Insights into Salinity Sensing,
Signaling and Adaptation in Plants
Joint International Conference on
Vector and Parallel Processing,
Zurich, Switzerland, September
10-13, 1990. Proceedings
Role of Endophytes in Plant Health*

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and Defense Against Pathogens

Adverse environmental factors can impose stress on plants and influence the expression of the full genetic potential for growth and reproduction. The capability of plants to develop plastic response reactions, to adapt to

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environmental stress situations, is unique in the biological world. A goal of the research described in this volume is to increase crop productivity, particular in regions where the environment imposes stress. An understanding of the principles involved in plant

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adaptation to environmental stress will enable optimisation of practices to improve agronomic production and minimise damaging environmental impact. The aim of this volume is to link the rapidly advancing and increasingly specialist field of

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molecular biology with plant physiology at the ecosystem level. The book includes chapters focused on some principle methods and a series of up-to-date review chapters on plant adaptation to a variety of specific stresses. The utilisation of newly

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available genome information is emphasised. Of particular importance is the desire to highlight the current potential of such approaches, and how diverse disciplines can interact and complement one another. The book is aimed at both the

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specialist and the advanced student.

This addition to The Basics of Recharge and Discharge series deals with the surface water balance approaches that form the traditional basis of hydrological investigations. It

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explores both field methods and modelling methods for measuring or estimating the different parts of the water balance, including rainfall, evaporation, run-off and soil water storage. The authors discuss the concepts required to understand a surface water

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balance result or to set up an experiment. As water balance studies can be both time-consuming and expensive, this report will give readers a better understanding of water balance approaches and the considerations before going into

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a water balance study for the purpose of deep drainage. Bath Advanced Science - Biology is a well respected course book providing extensive coverage for Advanced Level Biology courses. Fully illustrated in colour, the high quality material will capture

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students' interest and aid their learning.

Traditionally, the discipline of parallel computing has encompassed a wide range of topics ranging from machine organization all the way to applications. The Encyclopedia of

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Parallel Computing is likewise broad in scope, covering machine organization, programming, algorithms, and applications. Within each area, the Encyclopedia covers concepts, designs, and specific implementations. In the area of

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algorithms, the encyclopedia will cover (1) concepts such as cache-oblivious algorithms and systolic algorithms, (2) specific numerical and non-numerical algorithms such as parallel matrix-matrix multiplication and graph algorithms to, for example, find

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connected components in parallel, and (3) implementations of algorithms in the form of widely used libraries such as LAPACK. In the area of architecture, the encyclopedia will contain (1) concepts such as sequential consistency and cache

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coherency, (2) machine classes such as shared-memory multiprocessors and dataflow machines, and (3) specific machines such as IBM's cell processor and Intel's multicore machines. In the area of software, it will cover (1)

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concepts such as races and autoparallelization, and (2) designs in the form of parallel programming languages, library interfaces, and operating systems. The encyclopedia also will cover application issues emphasizing the type of parallel

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computation involved and the magnitude in terms of computational requirements of the applications. Each encyclopedia entry will be concise and clear and will contain references to the literature for readers wishing to study the

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topic of the entry in depth. The broad coverage--together with extensive pointers to the literature for in-depth study'will make the encyclopedia an invaluable reference tool for researchers, practitioners and students alike.

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**Part B Tissues and Organs
CONPAR 90 - VAPP IV
Plant Anatomy for the Twenty-
First Century
Plant Nutrition for Sustainable
Food Production and
Environment
Advances in Botanical Research**

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An Analytical Review of Anatomical, Physiological, and Morphogenic Aspects

A plant anatomy textbook unlike any other on the market today. Carol A. Peterson described the first edition as 'the best book on the subject of

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plant anatomy since the texts of Esau'. Traditional plant anatomy texts include primarily descriptive aspects of structure, this book not only provides a comprehensive coverage of plant structure, but also introduces aspects of the

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**mechanisms of development,
especially the genetic and hormonal
controls, and the roles of
plasmodesmata and the cytoskeleton.
The evolution of plant structure and
the relationship between structure
and function are also discussed**

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throughout. Includes extensive bibliographies at the end of each chapter. It provides students with an introduction to many of the exciting, contemporary areas at the forefront of research in the development of plant structure and prepares them

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**for future roles in teaching and
research in plant anatomy.**

**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**

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**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**

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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

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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

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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

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by roots and transport to the xylem. The book also discusses symplasmic 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

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**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**

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stomatal behavior on long-distance transport; and water transport through plants. This book will be a valuable resource for scientists, students, and researchers.

Increase in global population, drastic changes in the environment, soil

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degradation and decrease in quality and quantity of agricultural productivity warranted us to adapt sustainable farming practices. This book focuses on soil health management and creating biased rhizosphere that can effectively

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**augment the needs of sustainable
agriculture.**

**This book provides a comprehensive
and interactive view of recent
advances in the cytology, anatomy,
and physiology of roots as presented
at the 5th International Symposium**

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**on Structure and Function of Roots,
held on 31 August-4 September,
1998, in Stará Lesná, Slovakia. This
edition differs from previous ones by
including some aspects of functional
genetics and plant morphogenesis.
The book is intended to serve both**

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students and researchers as a valuable source of updated information, ideas, and concepts dealing with the most fundamental questions of development and function of plant roots.

Vascular Transport in Plants

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Crop Physiology

**Surface Water Balance for Recharge
Estimation -**

**Soil Basics, Management and
Rhizosphere Engineering for
Sustainable Agriculture**

Guide to Airports Authority of India

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**(AAI) Junior Executive Airport
Operations (AO)
Pump Handbook**

***Vascular Transport in
Plants provides an up-to-
date synthesis of new
research on the biology***

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of long distance transport processes in plants. It is a valuable resource and reference for researchers and graduate level students in physiology, molecular biology,

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***physiology, ecology,
ecological physiology,
development, and all
applied disciplines
related to agriculture,
horticulture, forestry and
biotechnology. The book***

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considers long-distance transport from the perspective of molecular level processes to whole plant function, allowing readers to integrate information relating to

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vascular transport across multiple scales. The book is unique in presenting xylem and phloem transport processes in plants together in a comparative style that

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***emphasizes the
important interactions
between these two
parallel transport
systems. Includes 105
exceptional figures
Discusses xylem and***

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***phloem transport in a
single volume,
highlighting their
interactions Syntheses of
structure, function and
biology of vascular
transport by leading***

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***authorities Poses
unsolved questions and
stimulates future
research Provides a new
conceptual framework for
vascular function in
plants***

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***Containing over 300
entries in an A-Z format,
the Encyclopedia of
Parallel Computing
provides easy, intuitive
access to relevant
information for***

Page 59/171

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***professionals and
researchers seeking
access to any aspect
within the broad field of
parallel computing.
Topics for this
comprehensive reference***

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***were selected, written,
and peer-reviewed by an
international pool of
distinguished researchers
in the field. The
Encyclopedia is broad in
scope, covering machine***

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***organization,
programming languages,
algorithms, and
applications. Within each
area, concepts, designs,
and specific
implementations are***

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presented. The highly-structured essays in this work comprise synonyms, a definition and discussion of the topic, bibliographies, and links to related literature.

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Extensive cross-references to other entries within the Encyclopedia support efficient, user-friendly searchers for immediate access to useful

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***information. Key
concepts presented in the
Encyclopedia of Parallel
Computing include; laws
and metrics; specific
numerical and non-
numerical algorithms;***

Page 65/171

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***asynchronous algorithms;
libraries of subroutines;
benchmark suites;
applications; sequential
consistency and cache
coherency; machine
classes such as clusters,***

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***shared-memory
multiprocessors, special-
purpose machines and
dataflow machines;
specific machines such as
Cray supercomputers,
IBM's cell processor and***

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***Intel's multicore
machines; race detection
and auto parallelization;
parallel programming
languages,
synchronization
primitives, collective***

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***operations, message
passing libraries,
checkpointing, and
operating systems.***

***Topics covered: Speedup,
Efficiency, Isoefficiency,
Redundancy, Amdahls***

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***law, Computer
Architecture Concepts,
Parallel Machine Designs,
Benmarks, Parallel
Programming concepts &
design, Algorithms,
Parallel applications. This***

Page 70/171

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***authoritative reference
will be published in two
formats: print and online.
The online edition
features hyperlinks to
cross-references and to
additional significant***

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research. Related

Subjects:

***supercomputing, high-
performance computing,
distributed computing
Pumping Station Design
Crops and world food***

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***supply, crop evolution,
and the origins of crop
physiology; maize; sugar
cane; rice; wheat;
soybean; pea; potato;
sugar beet; cotton; The
physiological basis of***

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crop yield.

Salinity: Environment —

Plants — Molecules

Annals of Botany

Principles and Practices

Parallel Processing from

Applications to Systems

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***Proceedings of the Royal
Society of Edinburgh
Molecular Analysis of
Plant Adaptation to the
Environment***

Provides graduate students and
researchers with tools to

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understand and quantitatively analyse biosphere-atmosphere fluxes of trace gases, water and energy.

With one volume each year, this series keeps scientists and advanced students informed of

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the latest developments and results in all areas of the plant sciences. The present volume includes reviews on plant genetics, physiology, ecology, and evolution.

Diarrheal diseases caused due

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to microbial contamination are one of the leading causes of fatalities amongst children.

Despite the availability of numerous commercial products for water filtration and treatment, there continues to be a need for

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technological solutions that can make safe drinking water affordable and accessible. Due to their low cost, high filtration rate per unit weight and the ability to be manufactured locally with little infrastructure, xylem-

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based filtration devices have potential to address the challenge of microbial contamination of water in resource-limited settings. Previous studies by Boutilier et al. have demonstrated the ability

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of sapwood xylem from conifers to achieve up to 99.9% rejection of bacteria from water. However, it has been reported that drying of xylem after extraction leads to a drop in permeability by a factor of over 100. This poses a huge

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challenge in the context of transportation and storage of these filters. Maintaining the filters in a wet state would require special packaging and also reduce their shelf-life. Further, previous tests with the

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xylem filters at laboratory scale have involved the use of gas-pressure to drive the flow. In practical applications, the use of pumps would drive up the cost of the device negating the primary advantage of these filters. To

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keep operational costs as minimal as possible, it is critical to operate xylem filters offline. This thesis aims to address the challenge of dry storage and offline, gravity-based operation of xylem filters. Moreover, the

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use of xylem for water filtration has not been explored before and little is known about its performance characteristics. This thesis also seeks to advance the understanding of xylem as a filter material through the study of

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attributes such as degradation of xylem when soaked in water, filter lifetime, its variation with water quality and variation of flow rate with time. Methods to engineer the xylem filters to improve their rejection capability

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have also been discussed. In parallel to technology development, efforts were also made to identify avenues for implementation of these filters in India. The insights gathered from field visits to India and

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discussions with key stakeholders have also been presented..

List of fellows for 1908- in v. 25.
Patterns in Plant Development
Proceedings of the 5th
International Symposium on

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Structure and Function of Roots
Biology

Proceedings

Transport and Transfer Process
in Plants

The updated edition of the
classic, fundamental book on

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weed science Weed Science provides a detailed examination of the principles of integrated weed management with important details on how chemical herbicides work and should be used. This revised

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Fourth Edition addresses recent developments affecting weed science. These include the increased use of conservation-tillage systems, environmental concerns about the runoff of agrochemicals, soil conservation,

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crop biotechnology, resistance of weeds and crops to herbicides, weed control in nonagricultural settings and concerns regarding invasive plants, wetland restoration, and the need for a vastly improved understanding of

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weed ecology. Current management practices are covered along with guidance for selecting herbicides and using them effectively. To serve as a more efficient reference, herbicides are cross-listed by

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chemical and brand name and grouped by mechanism of action and physiological effect rather than chemical structure. In addition, an introduction to organic chemistry has been added to familiarize readers with

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organic herbicides. Also included are guidelines on weed-control practices for specific crops or situations, such as small grains, row crops, horticultural crops, lawns and turf, range land, brush, and aquatic plant life.

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Generously supplemented with 300 drawings, photographs, and tables, Weed Science is an essential book for students taking an introductory course in weed science, as well as a reference for agricultural

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advisors, county agents,
extension specialists, and
professionals throughout the
agrochemical industry.

In biology, the very big global
and the very small molecular
issues currently appear to be in

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the limelight of public interest and research funding policies. They are in danger of drifting apart from each other. They apply very coarse and very fine scaling, respectively, but coherence is lost when the various

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intermediate levels of different scales are neglected. Regarding SALINITY we are clearly dealing with a global problem, which due to progressing salinization of arable land is of vital interest for society. Explanations and basic

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understanding as well as solutions and remedies may finally lie at the molecular level. It is a general approach in science to look for understanding of any system under study at the next finer (or "lower") level of scaling.

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This in itself shows that we need a whole ladder of levels with increasingly finer steps from the global impact to the molecular bases of SALINITY relations. It is in this vein that the 22 chapters of this book aim at providing an

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integrated view of SALINITY.
This essential reference provides
complete coverage of integrated
pest management (IPM). With
more than 40 recognized
experts, the book thoroughly
details the rationale and benefits

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of employing an IPM plan and provides technical information on each aspect from cultural practices to choosing when and how to use chemicals. It also brings together research work on pest problems with information

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on the practical implementation of the tools. Case studies of successful operations are provided as well.

Patterns in Plant Development offers an introduction to the development of the whole plant.

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Recent Advances of Plant Root
Structure and Function
Origins, Functions, and
Applications
Meristems, Growth and
Development in Woody Plants
Transport in Plants II

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Development of Xylem-based
Water Filters

Pumping Station Design

***Plants are made up of a
large number of distinct
cell types that
originate from a single***

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***fertilized egg cell. How
the diversity of cell
types arise in
appropriate places is
one of the most
fascinating and
attractive research***

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areas of plant biology. During the past several decades, due to the development of new molecular techniques and tools, advances in optical microscopy, and

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availability of whole genome information and mutants in the model plant Arabidopsis and other plants, great advances have been made in understanding the

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***mechanisms involved in
cell fate determination
in plants. Multiple
mechanisms are used to
generate cellular
diversity. Asymmetric
cell division is one of***

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***the primary mechanisms.
As an example,
asymmetric cell division
enables one stem cell to
generate a stem cell
daughter and a daughter
with a distinct***

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identity. Initially equivalent cells can also differentiate to generate different cell types. This mechanism has been clearly demonstrated in the

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formation of multiple cell types during epidermis development in the shoot and root. Cell fate determination is influenced by both intrinsic factors, i.e,

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developmental regulators, as well as extrinsic signals, i.e., environmental stimuli. By using model systems like stomata, trichome, root hair and shoot and

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***root apical meristem
cells, ligands,
receptors and
transcription factors
have been found to
regulate cell fate
determination. However,***

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***the details of signaling
cassettes responsible
for cell fate
determination remain
largely unknown. Plants
are made up of a large
number of distinct cell***

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types that originate from a single fertilized egg cell. How the diversity of cell types arise in appropriate places is one of the most fascinating and

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***attractive research
areas of plant biology.
During the past several
decades, due to the
development of new
molecular techniques and
tools, advances in***

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***optical microscopy, and
availability of whole
genome information and
mutants in the model
plant Arabidopsis and
other plants, great
advances have been made***

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in understanding the mechanisms involved in cell fate determination in plants. This research topic contains 12 collected articles, including 2 Opinion

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***Articles, 5 Reviews, 4
Mini Reviews, and 1
Original Research
Article. Hopefully,
these articles will
expand our understanding
of the regulation of***

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***cell fate determination
in plants.***

***This text provides one
of the broadest
presentations of
parallel processing
available, including the***

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***structure of parallel
processors and parallel
algorithms. The emphasis
is on mapping algorithms
to highly parallel
computers, with
extensive coverage of***

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***array and multiprocessor
architectures. Early
chapters provide
insightful coverage on
the analysis of parallel
algorithms and program
transformations,***

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***effectively integrating
a variety of material
previously scattered
throughout the
literature. Theory and
practice are well
balanced across diverse***

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***topics in this concise
presentation. For
exceptional clarity and
comprehension, the
author presents complex
material in geometric
graphs as well as***

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algebraic notation. Each chapter includes well-chosen examples, tables summarizing related key concepts and definitions, and a broad range of worked

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***exercises. Overview of
common hardware and
theoretical models,
including algorithm
characteristics and
impediments to fast
performance Analysis of***

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***data dependencies and
inherent parallelism
through program
examples, building from
simple to complex
Graphic and explanatory
coverage of program***

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***transformations Easy-to-
follow presentation of
parallel processor
structures and
interconnection
networks, including
parallelizing and***

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*restructuring compilers
Parallel synchronization
methods and types of
parallel operating
systems Detailed
descriptions of
hypercube systems*

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***Specialized chapters on
dataflow and on AI
architectures***

***Vols. 1-4 include
section called Record of
current literature.***

Pollutants are

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***increasing day by day in
the environment due to
human interference.
Thus, it has become
necessary to find
solutions to clean up
these hazardous***

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***pollutants to improve
human, animal, and plant
health. Microbial
Biotechnology in
Environmental Monitoring
and Cleanup is a
critical scholarly***

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***resource that examines
the toxic hazardous
substances and their
impact on the
environment. Featuring
coverage on a broad
range of topics such as***

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***pollution of
microorganisms,
phytoremediation, and
bioremediation, this
book is geared towards
academics,
professionals, graduate***

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*students, and
practitioners interested
in emerging techniques
for environmental
decontamination.*

*An Introduction to Plant
Structure and*

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***Development
Fundamentals and
Applications
Proceedings of the XIII
International Plant
Nutrition Colloquium,
13-19 September 1997,***

Page 138/171

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***Tokyo, Japan
Microbial Biotechnology
in Environmental
Monitoring and Cleanup
Proceedings of the 1991
International Conference
on Parallel Processing,***

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***August 12-16, 1991:
Architecture
Proceedings of the
Fourth International
Conference, Rottarch-
Egern, Fed. Rep. of
Germany, June 11-15,***

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1979

*In the history of the
International Plant
Nutrition Colloquium
from its first meeting
in 1954, this meeting,
the 13th Colloquium, is*

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the first to be held in Asia and will be the last in the 20th century. The 20th century has seen huge changes in the number and activities of

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*mankind. Our population
has increased from
around 1. 7 billion to
more than 5. 8 billion
and technological
innovations have
completely altered our*

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way of living. As a consequence of such rapid change, we are facing many problems including changes in our environment of a global scale. But, while food

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shortage has been a serious concern to mankind throughout our history, serious food shortages in the 20th century have been confined to limited

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*times and areas. As
Lester Brown discusses
in this volume, farmers
have increased food
production heroically on
demand. We, the plant
nutritionists should be*

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*proud of our support to
the world's farmers
which has helped them
make their achievement
possible. During the
20th century, the
science of plant*

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*nutrition also has
achieved great progress
as described by Jack
Loneragan; it became
established as a
discipline firmly based
in science, defined the*

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*chemical elements
supporting plant growth,
and has contributed to
improvements in plant
production and
environmental quality,
as readers will find in*

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*many contributions in
this volume.*

*Secondary Xylem Biology:
Origins, Functions, and
Applications provides
readers with many lenses
from which to understand*

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the whole scope and breadth of secondary xylem. The book builds on a basic comprehension of xylem structure and development before delving into other

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*important issues such as
fungal and bacterial
degradation and biofuel
conversion. Chapters are
written by recognized
experts who have in-
depth knowledge of their*

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specific areas of expertise. It is a single information source containing high quality content, information, and knowledge related to the

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*understanding of biology
in woody plants and
their applications.*

*Offers an in-depth
understanding of biology
in woody plants Includes
topics such as abiotic*

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*stresses on secondary
xylem formation, fungal
degradation of cell
walls, and secondary
xylem for bioconversion
Progresses from basic
details of wood*

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*structure, to dynamics
of wood formation, to
degradation*

*Advances in Botanical
Research*

*Comprehensive coverage
of the principles,*

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*mechanism, chemistry and
application of guttation
in plants.*

*Xylem Structure and the
Ascent of Sap*

*Terrestrial Biosphere-
Atmosphere Fluxes*

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Laser Spectroscopy IV
Progress in Botany 77
Regulation of Cell Fate
Determination in Plants
Weed Science

In the first part (Part A) of this
volume on transport, there

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was an emphasis on the processes occurring at the membranes bounding the cells. It was convenient to distinguish active and passive processes of transport across the membranes, and to

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recognize that certain transport processes may be regulated by internal factors in the cells such as cytoplasmic pH, concentrations of ions, of malate or of sugar in the vacuoles, or the hydrostatic

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pressure. Cells in tissues and organs show the same kinds of properties as individual cells, but in addition there can be cell to cell transport related to the organization of the tissue. Firstly cells within a tissue are

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separated from the external solutions by a diffusion path comprising parts of the cell walls and intercellular spaces; more generally this extra-cytoplasmic part of the tissue has been called the apoplasm.

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A similar term is "free space". Secondly, the anatomy of cells in tissues seems to allow some facilitated, local transport between cells in a symplasm. Entry into the symplast and subsequent transport in a

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symplasmic continuum seems to be privileged, in that ions may not have to mix with the bulk of the cytoplasm and can pass from cell to cell in particular cytoplasmic structures, plasmodesmata. In

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Chara plants, this kind of transport is found operating across the multi-cellular nodes as the main means of transport between the long internodal cells.

The first edition of this book

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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

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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

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xylem dysfunction are discussed and new insights into hydraulic architecture are reviewed with special emphasis on physiological limits on maximum transpiration and how

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hydraulic architecture limits gas exchange, carbon gain and growth of plants. The text concludes with a description of xylem failure and pathology. The book highlights fascinating areas of current

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research with the aim to stimulate more work in the future.

Encyclopedia of Parallel
Computing

Handbook of Integrated Pest
Management for Turf and

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Ornamentals
Technical Bulletin
Plant Desiccation Tolerance