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Titolo	OPERATOR extensions, interpolation of functions and related topics : 14th International Conference on Operator Theory, Timisoara (Romania), June 1-5, 1992 / edited by A. Gheondea, D. Timotin, F.-H. Vasilescu
Pubbl/distr/stampa	Basel : Birkhauser, c1993
ISBN	3-7643-2902-5
Descrizione fisica	XIV, 212 p. ; 24 cm
Collana	Operator theory, advances and applications ; 61
Disciplina	515.724
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Collocazione	C-5-(61
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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2. Record Nr.	UNINA9910141333203321
Autore	Niklas Karl J
Titolo	Plant physics [[electronic resource] /] / Karl J. Niklas and Hanns-Christof Spatz
Pubbl/distr/stampa	Chicago ; ; London, : University of Chicago Press, 2012
ISBN	1-280-12631-0 9786613530172 0-226-58634-0
Descrizione fisica	1 online resource (447 p.)
Classificazione	WN 1000
Altri autori (Persone)	SpatzHanns-Christof
Disciplina	571.2
Soggetti	Plant physiology Botanical chemistry Electronic books.
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Contents -- Preface -- Acknowledgments -- Recommended Reading -- Frequently Used Symbols -- Chapter One. An Introduction to Some Basic Concepts -- Chapter Two. Environmental Biophysics -- Chapter Three. Plant Water Relations -- Chapter Four. The Mechanical Behavior of Materials -- Chapter Five. The Effects of Geometry, Shape, and Size -- Chapter Six. Fluid Mechanics -- Chapter Seven. Plant Electrophysiology -- Chapter Eight. A Synthesis: The Properties of Selected Plant Materials, Cells, and Tissues -- Chapter Nine. Experimental Tools -- Chapter Ten. Theoretical Tools -- Glossary -- Author Index -- Subject Index
Sommario/riassunto	From Galileo, who used the hollow stalks of grass to demonstrate the idea that peripherally located construction materials provide most of the resistance to bending forces, to Leonardo da Vinci, whose illustrations of the parachute are alleged to be based on his study of the dandelion's pappus and the maple tree's samara, many of our greatest physicists, mathematicians, and engineers have learned much from studying plants. A symbiotic relationship between botany and the fields of physics, mathematics, engineering, and chemistry continues today, as is revealed in Plant Physics. The result of a long-term

collaboration between plant evolutionary biologist Karl J. Niklas and physicist Hanns-Christof Spatz, *Plant Physics* presents a detailed account of the principles of classical physics, evolutionary theory, and plant biology in order to explain the complex interrelationships among plant form, function, environment, and evolutionary history. Covering a wide range of topics—from the development and evolution of the basic plant body and the ecology of aquatic unicellular plants to mathematical treatments of light attenuation through tree canopies and the movement of water through plants' roots, stems, and leaves—*Plant Physics* is destined to inspire students and professionals alike to traverse disciplinary membranes.
