

Strasburgers Plant Sciences

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this famous book on botany was published for the first time in 1894 by eduard strasburger and his co workers the present edition is based on a translation of

the 36th edition of the german strasburger and contains additional contributions by renowned experts in the field the strasburger comprises a highly appealing and holistic approach to the structure the systematics and evolution the functioning and ecology of plants the book covers 14 chapters bundled into four main sections i molecular and morphological structure of plants and cells ii physiology and metabolism iii evolution and systematics of plants iv ecology

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structure physiology evolution systematics ecology

over seven chapters this book helps readers to integrate knowledge of plant anatomy physiology and morphogenesis as well as consider the conditions of the different environments to which plants are exposed it highlights the importance of knowledge of the anatomy of plant tissues for different applications in addition to the variety of physiological studies presented here the book also emphasizes anatomical studies in botanical quality control of medicinal herbs with human health benefits it is reflected in this book that studies on plant structure have greatly benefited from the new approaches and techniques available today

with one volume each year this series keeps scientists and advanced students informed of the latest developments and results in all areas of the plant sciences this latest volume includes reviews on plant physiology biochemistry genetics and genomics forests and ecosystems

morphology cytology the grades of morphological organization the characters of tissues morphology and anatomy of the plant body reproduction physiology of metabolism physiology of growth the physiology of movement systematics and evolution survey of the plant kingdom plant geography

plant science like the biological sciences in general has undergone seismic shifts in the last thirty or so years of course science is always changing and metamorphosing but these shifts have meant that modern plant science has moved away from its previous more agricultural and botanical context to become a core biological discipline in its own right however the sheer amount of information that is accumulating about plant science and the difficulty of grasping it all understanding it and evaluating it intelligently has never been harder for the new generation of plant scientists or for that matter established scientists and that is precisely why this handbook of plant science has been put together discover modern molecular plant sciences as they link traditional disciplines derived from the acclaimed encyclopedia of life sciences thorough reference of up to the minute reliable self contained peer reviewed articles cross referenced throughout contains 255 articles and 48 full colour pages written by top scientists in each field the handbook of plant science is an authoritative source of up to date practical information for all teachers students and researchers working in the field of plant science botany plant biotechnology agriculture and horticulture

over the past decade advances in both molecular developmental biology and evolutionary ecology have made possible a new understanding of organisms as dynamic systems interacting with their environments this innovative book synthesizes a wealth of recent research findings to examine how environments influence phenotypic expression in individual organisms ecological development or eco devo and how organisms in turn alter their environments niche construction a key argument explored throughout the book is that ecological interactions as well as natural selection are shaped by these dual organism environment effects this synthesis is particularly timely as biologists seek a unified contemporary

framework in which to investigate the developmental outcomes ecological success and evolutionary prospects of organisms in rapidly changing environments organism and environment is an advanced text suitable for graduate level students taking seminar courses in ecology evolution and developmental biology as well as academics and researchers in these fields

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