

Plant Science Growth Development And Utilization Of Cultivated Plants 2nd Edition By Hartmann Hudson Thomas 1988 03 22 Hardcover

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completely updated and revised this bestselling book continues to explain the growth and developmental processes involved in the formation of vegetables since the publication of the successful first edition significant discoveries particularly in the area of molecular biology have deepened and broadened our knowledge and understanding of these processes this new edition brings the topic up to date and is presented over two sections the first provides general knowledge on germination transplanting flowering the effects of stress and modelling whilst the second section details the physiology of specific crops or crop groups

as soil and crop management procedures have become more complex county agricultural agents farm advisors consultants and fertilizer and chemical dealers have had to specialize in some aspect of soil fertility and crop nutrition management procedures limiting their ability to provide a range of advice and services most farmers and growers can no longer turn to just one source for the information and instruction needed to achieve their production goals with over 70 percent new material the second edition of the plant nutrition and soil fertility manual discusses the principles determining how plants grow and the elements essential for successful crop production with a focus on the principles of soil fertility and plant nutrition the book covers physical and chemical properties of soil chemical and organic fertilizers soil acidity and alkalinity liming and liming materials and micronutrients essential to plant growth it also describes elements toxic to plants soil testing and plant analysis the topics and discussion in this self contained book are practical and user friendly yet comprehensive enough to cover material presented in upper level soil and plant science courses it allows practitioners with general background knowledge to feel confident applying the principles presented to soil crop production systems

a nato advanced study institute on light as energy source and information carrier in plant photo physiology was held at volterra italy from september 26 to october 6 1994 in order to consider the fundamental role that light plays in plant growth and development this book summarises the main lectures given at this meeting which concentrated on both photochemical energy conversion and signalling photosensing aspects light harvesting and conversion into chemical energy in photosynthesis occurs at the level of chlorophyll carotenoid containing photosystems in plants pigments are non covalently bound to a variety of polypeptides which serve as a specific scaffolding necessary to determine the energy coupling between pigments and thus allowing rapid excitation energy transfer from the antenna to the special reaction centre chlorophylls data from transient time resolved spectroscopies in the femtosecond and picosecond domain together with model calculations suggest that this process occurs in the 20 100 picosecond time span the special feature of reaction centre complexes ensures rapid primary charge separation probably in the order of 1 3 picoseconds with subsequent charge stabilisation reactions proceeding in the hundreds of picoseconds range the recently resolved crystallographic structure of lhcii the principal antenna complex of plants allows

precise determination of pigment pigment distances and thus permits calculation of approximate chlorophyll chlorophyll forster hopping rates which are in good agreement with time resolved measurements

in fundamental ways the functioning of all living systems obeys the laws of physics and chemistry this is true for all physiological processes that occur inside cells tissues organs and organisms this new edition of a classic text has been thoroughly revised while maintaining its unparalleled commitment to the clear presentation and student user friendliness certain to maintain its leading role in the teaching of general and comparative physiological principles physicochemical and environmental plant physiology 2nd edition establishes a new standard of excellence in the teaching of quantitative plant physiology

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