



Read Online Plant Propagation: Principles And Practices (6th Edition)

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Hartmann and Kester's Plant Propagation-Hudson Thomas Hartmann 2002 Hallmarked as the most successful book of its kind, this remarkably thorough treatment covers all aspects of the propagation of plants—both sexual and asexual—with considerable attention given to human (vs natural) efforts to increase plant numbers. The book presents both the art and science of propagation, and conveys knowledge of specific kinds of plants and the particular methods by which those plants must be propagated. A five-part organization outlines general aspects of plant propagation, seed propagation, vegetative propagation, methods of micropropagation, and propagation of selected plants. For anyone with an interest in how plants are grown and utilized for maintaining and adding enjoyment to human life.

Plant Propagation-Hudson Thomas Hartmann 1968 Presents complete coverage of all phases of plant propagation, by seeds, cuttings, grafting, budding, layering, division, and tissue culture propagation.

Plant Propagation-Hudson Thomas Hartmann 1997 This thorough text covers all aspects of the propagation of plants - both sexual and asexual - with considerable attention given to human (vs natural) efforts to increase plant numbers. It discusses the latest applied techniques and theories of propagation, gives a greater emphasis to the rapidly growing area of tissue culture micropropagation, and explores developments in propagation equipment and facilities. The book is divided into three parts: the first presents the scientific evidence that provides the theoretical framework upon which propagation is based; the second describes in detail, procedures and techniques; and the last provides descriptions of up-to-date propagation methods for important horticultural plants.

Hartmann and Kester's Plant Propagation: Pearson New International Edition-Hudson Thomas Hartmann 2013-07-30 For all undergraduate courses in plant propagation at the two-year and four-year colleges and universities. The world standard for plant propagation and horticulture for over 50 years, Hartmann and Kester's Plant Propagation continues to be the field's most complete, up-to-date text on plant propagation. It now contains color figures throughout, promoting learning and making it an even more useful working text and reference. It also contains extensive updates reflecting the latest commercial techniques and understanding of propagation biology. Like previous editions, it is organized into paired chapters on principles and practices, so it can easily be adapted for teaching courses that cover only practical topics, and for courses that also cover conceptual issues.

Plant Propagation-Hudson Thomas Hartmann 1968 General aspects of propagation. Propagating structures, media, fertilizers, soil mixtures, and containers. Sexual propagation. The development of fruits, seeds, and spores. Production of genetically pure seed. Techniques of seed production and handling. Principles of propagation by seeds. Techniques of propagation by seeds. Asexual propagation. General aspects of asexual propagation. Anatomical and physiological basis of propagation by cuttings. Techniques of propagation by cuttings. Theoretical aspects of grafting and budding. Techniques of grafting. Techniques of budding. Layering. Propagation by specialized stems and roots. Special methods of propagation. Propagation of selected plants.

Hartmann & Kester's Plant Propagation-Fred T. Davies Jr. 2017-09-15 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. World standard on plant propagation and horticulture for over 50 years! Hartmann and Kester's Plant Propagation remains the field's most complete and up-to-date guide to the principles and practices of plant propagation. Using color figures throughout, the text pairs chapters on horticultural science with commercial techniques for plant propagation. It starts with an introduction to the industry and basic plant biology, and then dives into more complex technical concepts, ranging from seed and vegetative propagation, to propagation techniques for specific fruits, nuts, and crops for the greenhouse and nursery. The extensively updated Ninth Edition integrates the latest breakthroughs and innovations, including advances in plant hormone biology and the molecular basis of plant growth. It includes a vast new range of color photos taken at commercial producers and research labs around the world. Instructor resources, such as PPTs, TestBanks, and Instructor Manuals, can be downloaded here.

Plant Propagation Concepts and Laboratory Exercises-Caula A. Beyl 2008-06-09 A complete teaching guide with hands-on laboratories, this book is edited by two of the leading experts in the field. The text develops a working knowledge of the principles of plant propagation, as they apply in temperate and tropical environments. In addition to presenting the essential fundamentals, this carefully conceived w

Plant Propagation-M. K. Sadhu 1989 In 14 Chapters, This Comprehensive Text Book Covers All Aspects Of Plant Propagation, Giving Proper Emphasis On Principles As Well As Practices Of Plant Propagation, Especially Under Tropical Condition. The Book Is Extensively Illustrated With Drawings And Photographs Which Will Help The Beginners. Advance Students Will Also Find This Book An Indispensable Mine Of Information. In Fact, This Book Will Be Of Interest To All People Working In Agriculture, Horticulture, Seed Technology And Forestry.

Propagation of Horticultural Crops-R.R Sharma 2016 It is a comprehensive book on "propagation of horticultural crops" which covers the principles, theory and practices in brief and simple language> Special emphasis has been given on seed propagation and nursery management. Similarly, a due attention has been paid to include some important chapters such as hybrid seed production, plastics in plant propagation, rejuvenation of old orchards, chemicals and plant bioregulators, modern techniques of raising annuals, etc. It is hoped that this book would be of great help to the UG & PG students, researchers, teachers, extension workers and alike in the field of horticulture

Applied Principles of Horticultural Science-Laurie Brown 2008-09-10 Applied Principles of Horticultural Science is that critical thing for all students of horticulture - a book that teaches the theory of horticultural science through the practice of horticulture itself. The book is divided into three sections - Plant science, Soil science, Pest and disease. Each section contains a number of chapters relating to a major principle of applied horticulture. Each chapter starts with a key point summary and introduces the underpinning knowledge which is then reinforced by exercises. The book contains over 70 practical exercises, presented in a way that makes students think for themselves. Answers to the exercises are given at the end of chapters. Clear step-by-step instructions make practical work accessible to students of all abilities. This new third edition provides an even wider sweep of case studies to make this book an essential practical workbook for horticulture students and gardeners alike. Updated material fits with the latest RHS, City and Guilds and Edexcel syllabus. It is particularly suitable for the RHS Certificate, Advanced Certificate and Edexcel Diplomas as well as for those undertaking NPTC National, Advanced National courses and Horticulture NVQs at levels 2 and 3, together with the new Diploma in Environmental and Land-based studies. Laurie Brown is a horticultural scientist and educator. He is Director of Academex, a consultancy company aspiring to excellence in teaching and learning. Laurie previously worked with the Standards Unit on the design of exemplary teaching resources in the land-based sector.

Physiology and Behaviour of Plants-Peter Scott 2013-04-29 Physiology and Behaviour of Plants looks at plants and how they sense and respond to their environment. It takes the traditional plant physiology book into a new dimension by demonstrating how the biochemical observations underlie the behaviour of the plant. In many ways the book parallels courses studied at university on animal physiology and behaviour. The plant has to meet the same challenges as an animal to survive, but overcomes these challenges in very different ways. Students learn to think of plants not only as dynamic organisms, but aggressive, territorial organisms capable of long-range communication. Hallmark features include: Based on a successful course that the author has run for several years at Sussex University, UK Relates plant biochemistry to plant function Printed in four colour throughout Includes a wealth of illustrations and photographs that engages the reader's attention and reinforce key concepts explored within the text Presents material in a modern 'topic' based approach, with many relevant and exciting examples to inspire the student An accompanying web site will include teaching supplements This innovative textbook is the ultimate resource for all students in biology, horticulture, forestry and agriculture. Companion website for this title is available at www.wiley.com/go/scott/plants

A Book of Blue Flowers-Robert Geneve 2013-05-03 Perhaps the most uncommon hue in the plant kingdom, the color blue strikes a distinctive note in any garden. In this fascinating book, Robert Geneve provides a wide selection of blue flowers that will help readers expand the range of colors in their gardening palettes.

The Bench Grafter's Handbook-Brian E. Humphrey 2019-06-18 Containing 500 full color photographs and illustrations, The Bench Grafter's Handbook: Principles and Practice presents exhaustive information on all aspects of bench grafting. It details requirements of more than 200 temperate woody plant genera, covering over 2,000 species and cultivars including important ornamental, temperate fruit, and nut crops. The book explains the principles and practices of bench grafting, new procedures to enhance grafting success, and recommendations for further scientific investigation. Practical issues to aid professionals and the beginner, include detailed accounts, supported by pictures and diagrams, of the main grafting methods, knifsmanship techniques, and methods of training. Provision and design, now and for the future, of suitable structures, grafting facilities, and equipment, to provide ideal controlled environments for grafts, are described. The book describes major grafting systems, sub-cold, cold, warm, supported warm, hot-pipe, and other grafting strategies. It provides details of health and safety issues; work stations, seat design, lighting levels; recorded output figures for various types of graft; grafting knives and tools; and methods of sharpening by hand and machine. Features: Comprehensive description, pictures, and diagrams of how to learn and utilize important grafting methods. Detailed information and scientific principles behind the selection, specification, and choice of the main graft components – the rootstock and scion. Scientific principles and practicalities of providing optimal plant material, equipment, facilities and environmental conditions for graft union development including addressing the problems of graft incompatibility. Discussion of the actual and potential role of bench grafting in woody plant conservation with suggestions for new initiatives. This book is intended for use by nurserymen; those involved in the upkeep of extensive plant collections; conservationists; plant scientists; lecturers in horticulture; horticultural students; and amateurs with an interest in grafting.

Horticulture-George Acquaah 2011-11-21 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Now in its fourth edition, Horticulture: Principles and Practices continues to explore horticulture as a science, an art, and a business, meeting the practical information needs of everyone involved in the discipline – from the small urban gardener/hobbyist to the large-scale producer. Hailed by many as the leading text of its kind and the best introductory horticulture book available today, this new edition is completely updated to include the latest developments and newest technologies. New features include two sets of sixteen-page color inserts, over 150 new photos, and Industry Highlights provided by twelve horticulture experts. The color inserts are directly and effectively tied to the text and are referenced throughout.

Growing Media for Ornamental Plants and Turf-Kevin A. Handreck 2002 This is a comprehensive revision of Growing Media, first published in 1984 and last revised in 2002. Since its first publication the book has been a core text for Horticulture students at TAFE colleges and universities as well as an important reference title.

Biology of Adventitious Root Formation-Tim D. Davis 2013-11-11 Charles E. Hess Department of Environmental Horticulture University of California Davis, CA 95616 Research in the biology of adventitious root formation has a special place in science. It provides an excellent forum in which to pursue fundamental research on the regulation of plant growth and development. At the same time the results of the research have been quickly applied by commercial plant propagators, agronomists, foresters and horticulturists (see the chapter by Kovar and Kuchenbuch, by Ritchie, and by Davies and coworkers in this volume). In an era when there is great interest in speeding technology transfer, the experiences gained in research in adventitious root formation may provide useful examples for other areas of science. Interaction between the fundamental and the applied have been and continue to be facilitated by the establishment, in 1951, of the Plant Propagators' Society, which has evolved into the International Plant Propagators' Society, with active programs in six regions around the world. It is a unique organization which brings together researchers in universities, botanical gardens and arboreta, and commercial plant propagators. In this synergistic environment new knowledge is rapidly transferred and new ideas for fundamental research evolve from the presentations and discussions by experienced plant propagators. In the past 50 years, based on research related to the biology of adventitious root formation, advances in plant propagation have been made on two major fronts.

Weeds of the Northeast-Richard Hart Uva 1997 Here, at last, is a lavishly illustrated manual for ready identification of 299 common and economically important weeds in the region south to Virginia, north to Maine and southern Canada, and west to Wisconsin. Based on vegetative rather than floral characteristics, this practical guide gives anyone who works with plants the ability to identify weeds before they flower.*A dichotomous key to all the species described in the book is designed to narrow the choices to a few possible species. Identification can then be confirmed by reading the descriptions of the species and comparing a specimen with the drawings and photographs.*A fold-out grass identification table provides diagnostic information for weedy grasses in an easy-to-use tabular key.*Specimens with unusual vegetative characteristics, such as thorns, square stems, whorled leaves, or milky sap, can be rapidly identified using the shortcut identification table. The first comprehensive weed identification manual available for the Northeast, this book will facilitate appropriate weed management strategy in any horticultural or agronomic cropping system and will also serve home gardeners and landscape managers, as well as pest management specialists and allergists.

Garden Practices and Their Science-Geoff Dixon 2018-12-11 Written in a clear and accessible style, Garden Practices and Their Science guides gardeners in the practical arts of plant husbandry and in their understanding of its underpinning principles. The author, Professor Geoff Dixon, is an acknowledged and internationally respected horticulturist and microbiologist; he intertwines these arts and principles carefully, expertly leading readers from one to the other. Achieving the manipulation of plant life is described in eight full-colour, well-illustrated chapters covering the growing of potatoes, bulb onions, legumes, small-seeded vegetables, soft fruit, bulbs and herbaceous ornamentals in great detail. Environmental factors controlling the successful husbandry of these crops is described in simple, non-technical language, increasing gardeners' enjoyment and competence. Gardeners are also informed of the tools and equipment they require and their safe use. Also provided are a series of simple, straightforward tests identifying the aerial and soil environments beneficial for plant growth using readily accessible domestic tools. Discussions of very straightforward techniques for vegetative propagation conclude this book. Each chapter ends with a list of the gardening knowledge that has been gained by readers. The structure of this book fulfills a longstanding need for descriptions of practical skills integrated with the corresponding biological reactions of plants. Emphasis is placed on gardeners' development of healthy soils, which encourage vigorous, active root systems capable of withstanding stresses—an aspect of gardening that rarely receives sufficient attention. Tailored for readers requiring clear and concise directions, this very practical book is an instruction manual directed at early-stage gardening learners. These include people of all ages and requirements such as new garden owners, allotment-holders, apprentices and students of basic levels in the Royal Horticultural Society's or City & Guilds qualifications, career changers, community gardeners and those needing applied biological knowledge for GCSE examinations.

Plant Cell and Tissue Culture - A Tool in Biotechnology-Karl-Hermann Neumann 2009-04-28 This book provides a general introduction as well as a selected survey of key advances in the fascinating field of plant cell and tissue culture as a tool in biotechnology. After a detailed description of the various basic techniques employed in leading laboratories worldwide, follows an extended account of important applications in, for example, plant propagation, secondary metabolite production and gene technology. Additionally, some chapters are devoted to historical developments in this domain, metabolic aspects, nutrition, growth regulators, differentiation and the development of culture systems. The book will prove useful to both newcomers and specialists, and even "old hands" in tissue culture should find some challenging ideas to think about.

Plant Physiology in Relation to Horticulture-J. K. A. Bleasdale 1973-06-18

The Fundamentals of Horticulture-Chris Bird 2014-04-24 Essential reading for all studying horticulture and keen gardeners. This clear introduction to the principles underlying the practical applications of horticulture opens up the excitement of growing plants and garden development without readers wading through complex information. Written by a team of highly motivated and experienced horticultural tutors, the text supports the newly restructured RHS Level 2 qualifications with related Level 3 topics in boxes and signposting to Level 4 topics, together with other horticultural qualifications at these levels. Full colour images tied closely to the text and practical case study boxes inspire readers by making topics relevant to their own horticultural experiences. A comprehensive glossary helps build confidence in the use of classical horticulture language as well as new developing terms, and end-of-chapter questions encourage readers to apply what they have learnt. Extensive online supporting material includes mind maps showing the relationship of topics and aiding students in revision.

Tissue Culture Techniques for Horticultural Crops-Kenneth C. Torres 2012-12-06 This book was written for those individuals who are concerned about the techniques and practices of plant cell cultures for horticultural crops. It was designed to serve as a text and reference for students and professionals in ornamental horticulture, fruit and vegetable crop production, botany, forestry, and other areas of plant science. Research during the last twenty-five years in the area of plant tissue culture has led to many developments and changes in this field. Al though the techniques involved in the manipulation of plant tissue culture are now relatively straightforward, the presentation of these techniques in a short volume for the beginner in the field is generally unavailable. In addition to describing the techniques for establishment and manipulation of specific species, several chapters in this book also provide a brief, general review of important cultural parameters. Spe cific protocols and laboratory procedures may also be found in the appendix. I hope that this presentation of information will be helpful to those individuals wanting to apply plant tissue culture techniques for horticultural crops.

The Plant Propagator's Bible-Miranda Smith 2021-06-29 The Plant Propagator's Bible offers all you need to know to propagate new plants from existing ones.

Cutting Propagation-John M. Dole 2006 The latest techniques for propagating crops with terminal, stem, and leaf/stem cuttings are the focus of this horticulture handbook. Fifty-eight major floriculture crop species along with hundreds of other minor crop species are detailed according to the best way to propagate and grow each one. Plants are organised by their type, such as bedding, field cuts, foliage, and perennials. An introduction to the floriculture cutting propagation industry addresses establishing and managing a young-plants service, creating the correct conditions for a cutting harvest and propagation, and shipping unrooted, callus, and rooted cuttings and plugs. Nutrient, watering, and pest control information is also provided to help horticulturists to keep their crops healthy and strong.

Plant Pathology Concepts and Laboratory Exercises-Bonnie H. Ownley 2016-11-03 Continuing in the tradition of its predecessors, this new edition combines an informal, easy to read style with a thorough introduction to concepts and terminology of plant pathology. After reviewing fundamental concepts, the book discusses groups of plant pathogens and molecular tools for studying them, pathogen interactions, epidemiology and disease control, and special topics in plant pathology. The book details various disease-causing organisms, including viruses, fungi, prokaryotics, nematodes, and various biotic agents. It also examines various plant-pathogen interactions, molecular attack strategies, extracellular enzymes, host defenses, and disruption of plant function. New in the Third Edition Molecular plant-fungal interactions Expanded treatment of molecular tools Advanced biocontrol concepts How to use and care for microscopes

New Root Formation in Plants and Cuttings-M.B. Jackson 2012-12-06 The formation of roots is in some respects one of the least fundamentally understood of all plant functions. Propagation by cuttings is the aspect that will occur first to most gardeners and horticulturists, and it is certainly the most useful application. But any observant traveller in the tropics can notice that some trees have the habit of forming roots in the air. Climbers like *Cissus* bear long fine strings of roots hanging down. Pandanus trees tend to have stout aerial roots issuing from the bases of the long branches, while the tangle of roots around the trunk of many of the *Ficus* species is characteristic. In *Ficus bengalensis*, in particular, stout cylindrical roots firmly embedded in the ground from a height of 3 to 5 meters give support to the long horizontal branches, enabling them to spread still further. In the big old specimen at Adyar near Madras, the spread of these branches all around the tree, each with a strong root growing out every few meters, makes a shaded area under which meetings of almost 5000 people are sometimes held. The history of how the formation of roots on stem cuttings was found to be under hormonal control is worth repeating here.

Hartmann's Plant Science-Margaret McMahon 2007 Written by some of the most respected innovators in the field, this comprehensive text takes an in-depth look at the environmental, cultural and social factors that influence how plants are grown and used worldwide. The newest edition cites the most recent statistics, production methods and issues concerning the production and utilization of plants. It offers several web-based resources including a free companion website with practice questions andonline crop fact sheets that give information at a local level. Along with information on climate and environment, it also explores plants' tremendous economic impact in both developed and developing nations. Introduces the basics of plant science including the ecosystem; climate; managing soil, water and fertility; and pest management. Examines plant structure, chemistry, growth and development; genetics and biodiversity and their relationship to crop growing and utilization systems. Covers multiple crop types and growth settings including nursery, landscape and greenhouse. Also discusses how crops are preserved, transported and marketed. For anyone interested in how plants are cultivated and utilized.

Plants from Test Tubes-Lydiane Kyte 1987 Acclaimed as the most practical guide to plant tissue culture, the book is now even better and introduces new developments in biotechnology, such as genetic engineering and cell culture.

The Woody Plant Seed Manual-United States. Forest Service 2008

High-Tech and MicropropagationI-Y. P. S. Bajaj 2012-12-06 Presented here is another classic from this series and deals with general aspects of micropropagation of plants for commercial exploitation. It includes chapters on setting up a commercial laboratory, meristem culture, somatic embryogenesis, factors affecting micropropagation, disposable vessels, vitrification, acclimatization, induction of rooting, artificial substrates, cryopreservation and artificial seed. Special emphasis is given on modern approaches and developing technologies such as automation and bioreactors, robots in transplanting, artificial intelligence, information management and computerized greenhouses for en masse commercial production of plants.

Introdution Plant Taxonomy-Jeffrey 1982-08-19 This book explains in simple terms how plants are classified and named.

Principles of Horticulture-C.R. Adams 2013-10-22 Principles of Horticulture, Second Edition covers the various topics concerning plant cultivation for agricultural use. The book is comprised of 17 chapters that tackle the various areas of concerns in horticulture. The coverage of the text includes the nurturing aspects of horticulture, including growth and development, genetics and breeding, and nutrition. The book also covers the various threats and problems encountered by horticulturists, such as pests, weeds, and harmful microorganisms. The text will be of great use to researchers and practitioners of plant-related fields, such as botany, agriculture, and particularly horticulture.

Principles of Plant Genetics and Breeding-George Acquaah 2020-09-28 The revised edition of the bestselling textbook, covering both classical and molecular plant breeding Principles of Plant Genetics and Breeding integrates theory and practice to provide an insightful examination of the fundamental principles and advanced techniques of modern plant breeding. Combining both classical and molecular tools, this comprehensive textbook describes the multidisciplinary strategies used to produce new varieties of crops and plants, particularly in response to the increasing demands to of growing populations. Illustrated chapters cover a wide range of topics, including plant reproductive systems, germplasm for breeding, molecular breeding, the common objectives of plant breeders, marketing and societal issues, and more. Now in its third edition, this essential textbook contains extensively revised content that reflects recent advances and current practices. Substantial updates have been made to its molecular genetics and breeding sections, including discussions of new breeding techniques such as zinc finger nuclease, oligonucleotide directed mutagenesis, RNA-dependent DNA methylation, reverse breeding, genome editing, and others. A new table enables efficient comparison of an expanded list of molecular markers, including Allozyme, RFLPs, RAPD, SSR, ISSR, DAMD, AFLP, SNPs and ESTs. Also, new and updated "Industry Highlights" sections provide examples of the practical application of plant breeding methods to real-world problems. This new edition: Organizes topics to reflect the stages of an actual breeding project Incorporates the most recent technologies in the field, such as CRISPR genome edition and grafting on GM stock Includes numerous illustrations and end-of-chapter self-assessment questions, key references, suggested readings, and links to relevant websites Features a companion website containing additional artwork and instructor resources Principles of Plant Genetics and Breeding offers researchers and professionals an invaluable resource and remains the ideal textbook for advanced undergraduates and graduates in plant science, particularly those studying plant breeding, biotechnology, and genetics.

Plant Ecology-Paul A. Keddy 2017-04-17 Presenting a global and interdisciplinary approach to plant ecology, this much-awaited new edition of the book Plants and Vegetation integrates classical themes with the latest ideas, models, and data. Keddy draws on extensive teaching experience to bring the field to life, guiding students through essential concepts with numerous real-world examples and full-colour illustrations throughout. The chapters begin by presenting the wider picture of the origin of plants and their impact on the Earth, before exploring the search for global patterns in plants and vegetation. Chapters on resources, stress, competition, herbivory, and mutualism explore causation, and a concluding chapter on conservation addresses the concern that one-third of all plant species are at risk of extinction. The scope of this edition is broadened further by a new chapter on population ecology, along with extensive examples including South African deserts, the Guyana Highlands of South America, Himalayan forests and arctic alpine environments.

The Handbook of Plant Biosecurity-Gordon Gordh 2013-11-19 The Handbook identifies all aspects of Regulatory Plant Biosecurity and discusses them from the standpoint of preventing the international movement of plant pests, diseases and weeds that negatively impact production agriculture, natural plant-resources and agricultural commerce.

Hortus third-Liberty Hyde Bailey Hortorium 1997

Eat Here-Brian Halweil 2004 An examination of food transportation practices throughout America and the rest of the world evaluates the economic and social costs of eating non-locally produced foods, citing such consequences as lost local revenues, transport pollution, and compromised food security while recommending rural restoration within cities. Original. 15,000 first printing.

Save and Grow-Food and Agriculture Organization of the United Nations 2018-06-22 The book offers a rich toolkit of relevant, adoptable ecosystem-based practices that can help the world's 500 million smallholder farm families achieve higher productivity, profitability and resource-use efficiency while enhancing natural capital.

Let's Propagate!-Angus Stewart 2012-02-01 If you're a gardener who buys everything from the standard and limited nursery range, then you are missing out on one of the most satisfying of all human endeavours - propagating your own plants. Let's Propagate is for anyone interested in hands-on propagation in Australia, either professionally or in the home garden. The book is a marvellous gardening companion for suburban gardeners who crave a creative element amidst the weeding, mowing and pruning; gardeners who are frustrated after trying to adapt imported and inappropriate information to local conditions; gardeners in search of Australian varieties; recreational gardeners and professional propagators alike who wish to be abreast of new techniques and research to stimulate germination in many difficult-to-propagate Australian plants; those who wish to expand the range of plants currently available to them; and anyone who wishes to experience the joy of fostering and nurturing new life. Gardening media personality and avid propagator, Angus Stewart, takes us from the first principles to the latest sophisticated techniques. His infectious passion for his subject will make you yearn to get out there to create landscapes and gardens, grow trees, or perhaps help revive endangered species.

Cloning Agricultural Plants Via in Vitro Techniques-Bob Vernon Conger 2018 "The purpose of this book is to provide a reference guide on principles and practices of cloning agricultural plants via in vitro techniques for scientists, students, commercial propagators, and other individuals who are interested in plant cell and tissue culture especially its application for cloning.Plant cell and tissue culture generated much excitement during 1970's concerning the potential application of the technology for improving important agricultural crop plants. This originates from the demonstration of cellular totipotency, or the ability to regenerate whole plants from single cells, and the successful creation of hybrids by somatic cell fusion in some species. There are several areas of in vitro culture which have potential practical application. The most practical application is deemed as cloning or mass propagation of selected genotypes. This is evidenced by the large number of commercial firms engaged in propagating a variety of plants through tissue culture."--Provided by publisher.