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KEY=HORTICULTURE - AMIYA KANE

Tropical Fruits Crop Production Science in Horticulture 24 CABI Volume 2 of this revised edition of ""Tropical Fruits"" examines the more specialist tropical fruits such as guava, durian, mangosteen, passion fruits and palm fruits. With growing interest in the cultivation, production, study, sales and marketability of these specialist fruits, this is a timely and informative book. Topics like botany, soil and climate requirements, cultivar development, world production and harvesting and postharvest handling are covered in-depth for each crop. This practical and accessible book is an ideal text for horticulture academics, researchers, extension workers, st Tropical Fruits, Volume 2 - Crop Production Science in Horticulture Tropical Fruits CABI This book examines economically important horticultural crops selected from the major production systems in temperate, subtropical and tropical climatic areas. The general aspects of the tropical climate, fruit production techniques, tree management and postharvest handling and the principal tropical fruit crops that are common in temperate city markets are discussed. The taxonomy, cultivars, propagation and orchard management, biotic and abiotic problems and cultivar development of these fruit crops are also highlighted. Bananas and Plantains CABI Bananas and plantains are major fruit crops in the tropics and subtropics, making a vital contribution to the economies of many countries. In the last 15 years, substantial changes have occurred in banana production, among them the increased importance of fungal and viral diseases and their serious impact on Cavendish export cultivars, smallholder plantains and cooking bananas. Changes in production systems such as protected greenhouse cultivation, organic, fair-trade and integrated cultivation and their respective certification schemes have also become prominent. This book provides an accessi. Tropical Fruits Diseases of Tropical Fruit Crops CABI Annotation. Comprehensive information on diseases of the most important tropical fruit cropsChapters are devoted to a single or, in some cases, a related group of host plantsThe history, distribution, importance, symptoms, aetiology, epidemiology and management of diseases of each crop are described in detailThis book offers a comprehensive review of diseases of important tropical and some subtropical fruit crops. The history, distribution, importance, etiology, epidemiology and control of diseases of each host crop are covered, along with brief summaries on the taxonomy, origins and characteristics of each host. Additional information is given on the biology and pathology of the causal agents and on new advances that change or otherwise enhance our understanding of the nature and cause of these diseases. Plant pathologists, plantation and nursery managers, lecturers and those who are involved in tropical agriculture and horticulture will find this an essential reference. Fruit Crops New India Publishing The book is a comprehensive and need oriented volume encompassing the latest and balanced information about various aspects of fruit culture (tropical & subtropical). Following is a sampling of topics covered. Introductory on Fruit Industry deals briefly with production statistics, social, nutritive and industrial relevance and importance of fruit production. Second provides a complete overview of all principles and practices associated with Orchard planning, Layout and Management in a very abridged manner. The third on Classification of fruit crops includes botanical, horticultural and environmental grouping in a very precise but meaningful manner. Following s give a detailed account on different aspects including origin, distribution, botany & varieties, classification, climate & soil requirements, propagation, cultivation methods, flowering, harvesting, post harvest methods and crop protection of different fruit crops coming under each group such as tropical, subtropical and arid & semi-arid fruits. IV is on tropical fruits - Banana, Guava, Mangosteen, Papaya Pineapple and Sapota. V is on ten major subtropical fruits Avocado, Citrus, Grapes, Litchi, Loquat, Mango, Olive, Passion fruit, Persimmon and Pomegranate. VI contains details of eight major arid & semi-arid fruit crops namely, Aonla, Ber, Custard apple, Date, Fig, Jack, Jamun and Phalsa. Apart from these major fruit crops, VII gives a brief but comprehensive account on a large number of under and un - exploited fruit crops of tropical and subtropical parts of the world. This gives details of well-known minor fruits and a list of other very less known fruit species, which can be made the subject of detailed study for further utilization and information generation. Information provided in this compilation will be of use to students, teachers, scientists, extension workers, orchardists and others interested in fruit culture. Tropical Fruit Processing Elsevier Tropical Fruit Processing focuses on the improved food preservations methods of tropical fruits for lesser developed and developed countries. This book covers four tropical fruits, namely, guava, mango, papaya, and passion fruit. These fruits have the greatest growth potential based on the knowledge and technology acquired in their cultivation, processing, and preservation. Each chapter in this book discusses the botany, cultivars, horticulture, harvesting, handling, storage, composition, packing, and processing of the fruit. A variety of processed products from these fruits, such as jellies, jams, preserves, purees, sauces, and juices, are also covered. Furthermore, this book describes various food preservation methods including dehydration, concentration, and canning. This book is an invaluable resource for scientists, technologists, manufacturers, students, and others concerned with cultivating, processing, manufacturing, research, development, or marketing of foods. Tropical Fruits and Other Edible Plants of the World An Illustrated Guide Cornell University Press Tropical fruits such as banana, mango, papaya, and pineapple are familiar and treasured staples of our diets, and consequently of great commercial importance, but there are many other interesting species that are little known to inhabitants of temperate regions. What delicacies are best known only by locals? The tropical regions are home to a vast variety of edible fruits, tubers, and spices. Of the more than two thousand species that are commonly used as food in the tropics, only about forty to fifty species are well known internationally. Illustrated with high-quality photographs taken on location in the plants' natural environment, this field guide describes more than three hundred species of tropical and subtropical species of fruits, tubers, and spices. In Tropical Fruits and Other Edible Plants of the World, Rolf Blancke includes all the common species and features many lesser known species, including mangosteen and maca, as well as many rare species such as engkala, sundrop, and the mango plum. Some of these rare species will always remain of little importance because they need an acquired taste to enjoy them, they have too little pulp and too many seeds, or they are difficult to package and ship. Blancke highlights some fruits—the araza (Eugenia stipitata) and the nutritious peach palm (Bactris gasipaes) from the Amazon lowlands, the Brunei olive (Canarium odontophyllum) from Indonesia, and the remarkably tasty soursop (Annona muricata) from Central America—that deserve much more attention and have the potential to become commercially important in the near future. Tropical Fruits and Other Edible Plants of the World also features tropical plants used to produce spices, and many tropical tubers, including cassava, yam, and oca. These tubers play a vital role in human nutrition and are often foundational to the foodways of their local cultures, but they sometimes require complex preparation and are often overlooked or poorly understood distant from their home context. Horticulture: Plants for People and Places, Volume 1 Production Horticulture Springer This Trilogy explains "What is Horticulture?". Volume one of Horticulture: Plants for People and Places describes in considerable depth the science, management and technology which underpins the continuous production of fresh and processed horticultural produce. Firstly, there is a consideration of technological innovation derived from basic scientific discoveries which has given rise to entirely new industries, markets, novel crops and changed social habits. Then follows accounts of the modern production of: Field Vegetables, Temperate Fruit, Tropical Fruit, Citrus, Plantation Crops, Berry Crops, Viticulture, Protected Crops, Flower Crops, New Crops, Post-harvest Handling, Supply Chain Management and the Environmental Impact of Production. Each chapter is written by acknowledged world experts. Never before has such an array of plentiful, high quality fresh fruit, vegetables and ornamentals been available year-round in the World's retail markets. Horticulture gives consumers this gift of nutritious, high quality, safe and diverse fresh foods. This is achieved by manipulating plant growth, reproduction and postharvest husbandry. The multi-billion dollar international industry achieving this is Production Horticulture the subject of this informative book. Tropical and Subtropical Fruits Postharvest Physiology, Processing and Packaging John Wiley & Sons Tropical and sub-tropical fruits have gained significant importance in global commerce. This book examines recent developments in the area of fruit technology including: postharvest physiology and storage; novel processing technologies applied to fruits; and in-depth coverage on processing, packaging, and nutritional quality of tropical and sub-tropical fruits. This contemporary handbook uniquely presents current knowledge and practices in the value chain of tropical and subtropical fruits world-wide, covering production and post-harvest practices, innovative processing technologies, packaging, and quality management. Chapters are devoted to each major and minor tropical fruit (mango, pineapple, banana, papaya, date, guava, passion fruit, lychee, coconut, logan, carombola) and each citrus and non-citrus sub-tropical fruit (orange, grapefruit, lemon/lime, mandarin/tangerine, melons, avocado, kiwifruit, pomegranate, olive, fig, cherimoya, jackfruit, mangosteen). Topical coverage for each fruit is extensive, including: current storage and shipping practices; shelf life extension and quality; microbial issues and food safety aspects of fresh-cut products; processing operations such as grading, cleaning, size-reduction, blanching, filling, canning, freezing, and drying; and effects of processing on nutrients and bioavailability. With chapters compiled from experts worldwide, this book is an essential reference for all professionals in the fruit industry. The Encyclopedia of Fruit and Nuts CABI Ever wanted to know the genus name for a coconut? Intended for all your research needs, this encyclopedia is a comprehensive collection of information on temperate and tropical fruit and nut crops. Entries are grouped alphabetically by family and then by species, making it easy to find the information you need. Coverage includes palms and cacti as well as vegetable fruits of Solanaceae and Curcurbitacea. This book not only deals with the horticulture of the fruit and nut crops but also discusses the botany, making it a useful tool for anyone from scientists to gardeners and fruit hobbyists. Breeding Tropical and Subtropical Fruits Springer Science & Business Media Plant breeding has undergone a period of very rapid and significant development in recent years and the area of fruit breeding is no exception. This book provides a balanced, up-to-date and comprehensive account of the developments in the field of breeding tropical and subtropical fruits. It offers not only the theoretical and applied aspects of breedings fruits but also provides an authoritative manual of the conventional and new techniques used for increasing efficiency of crop improvement programmes. In specific chapters the book deals with crop taxonomy, genetic resources, floral biology, breeding objectives, inheritance patterns and information on new improved cultivars/hybrids. Temperate Fruits Production, Processing, and Marketing CRC Press This volume, Temperate Fruits: Production, Processing, and Marketing, presents the latest pomological research on the production, postharvest handling, processing and storage, and information on marketing for a selection of temperate fruits. These include apple, pear, quince, peach, plum, sweet cherry, kiwifruit, strawberry, mulberry, and chestnut. With chapters from fruit experts from different countries of the world, the book provides the latest information on the effect of climate change on fruit production, organic fruit growing and advanced fruit breeding, the nutraceutical value and bioactive compounds in fruits and their role in human health, and new and advanced methods of fruit production. Topics include microirrigation, sustainable nutrient management, crop protection and plant health management, and farm mechanization. Principles of Tropical Horticulture CABI Principles of Tropical Horticulture leads the reader through a background of environmental influences and plant physiology to an understanding of production and post-harvest systems, environmental adaptation techniques and marketing strategies. Focusing on the principles behind production practices and their scientific basis, rather than detailed biological traits of each crop, this text outlines successes and failures in practices to date and sets out how the quantity and quality of horticultural produce can improve in the future. Case studies are frequently used and chapters cover the production of vegetables, fruit and ornamental crops, including temperate zone crops adapted to grow in the tropics. Guava Botany, Production and Uses CABI Guava (Psidium guajava L.) is an exquisite, nutritionally and economically valuable crop of tropical and subtropical regions of the world. It outshines other tropical fruits in productivity, hardiness, adaptability, nutritional value, and ensures higher economic returns to growers. Guava is commercially grown in over 70 countries, and is gaining in popularity as a 'super fruit' due to its nutritional and health benefits. With contributions from international experts, this is a valuable resource for researchers and students in horticulture, and guava-industry

support personnel. Exotic Fruits and Nuts of the New World CABI **A major reference work on exotic and underutilised fruits and nuts of the New World. While many of these are well known in the local markets and in Spanish-language literature, they have rarely been brought to the attention of the wider English-speaking audience, and as such this book will offer an entirely new resource to those interested in exotic crops. Temperate and Subtropical Fruit Production** Butterworth-Heinemann **Uitgebreide teelt- en verzorgingsgids voor steen-, pit- en citrusvruchten, noten, zacht fruit en andere fruitsoorten voor het klimaat van Nieuw-Zeeland The Papaya Botany, Production and Uses** CABI **"Global papaya production has grown significantly over the last few years, mainly as a result of increased production in India. This is the first comprehensive book authored by an international team of experts at the forefront of research and covers botany, biotechnology, production, postharvest physiology and processing"-- The Mango Botany, Production and Uses** CABI **Introduction: botany and importance. Taxonomy and systematics. Important mango cultivars and their descriptors. Breeding and genetics. Reproductive physiology. Ecophysiology. Fruit diseases. Foliar, floral and soilborne diseases. Physiological disorders. Pests. Crop production: propagation. Crop production: mineral nutrition. Crop production management. Postharvest physiology. Postharvest technology and quarantine treatments. World mango trade and the economics of mango production. Fruit processing. Biotechnology. The Pineapple, 2nd Edition Botany, Production and Uses** CABI **Completely updated with new content and full-colour figures throughout, the second edition of this successful book continues to provide a comprehensive coverage of pineapple breeding, production and yield. Pineapple is an increasingly important crop and demand for fresh pineapple is steadily growing; stakeholders in the value chain are worldwide. The Pineapple: Botany, Production and Uses provides essential coverage from botany through to postharvest handling and provides the technical information required by all those working with the crop. The second edition: - Contains new chapters on organic production and production for other uses (fibre and ornamentals). - Includes major updates to content on taxonomy, biotechnology, cultural systems, nutrition, varieties and genetic improvement. - Explores physiological changes associated with the year-round growing of pineapple in addition to the associated cultural practices and mineral nutrition. - Considers the impacts of climate change and environmental issues on pineapple crops, and relevant mitigation strategies. - Looks at the effects of new cultivars and technologies on cultural practices and plant nutrition. Written by an international team of experts, this book is an essential resource for researchers, growers and all those involved in the pineapple industry. The Lime Botany, Production and Uses** CABI **This book is a comprehensive and up-to-date resource covering the botany, production and uses of limes. The lime is an important fruit crop throughout citrus producing regions of the world, with its own specific benefits, culture and marketplace, but producers face issues affecting successful cultivation and production. Authored by an international team of experts and presented in full colour throughout, this book is an essential resource for academic researchers and specialist extension workers, in addition to growers and producers involved in the citrus industry. The Pomegranate Botany, Production and Uses** CABI **The pomegranate, Punica granatum L., is one of the oldest known edible fruits and is associated with the ancient civilizations of the Middle East. This is the first comprehensive book covering the botany, production, processing, health and industrial uses of the pomegranate. The cultivation of this fruit for fresh consumption, juice production and medicinal purposes has expanded more than tenfold over the past 20 years. Presenting a review of pomegranate growing, from a scientific and horticultural perspective, this book provides information on how to increase yields and improve short- and medium-term grower profitability and sustainability. Citrus Cherries Botany, Production and Uses** CABI **Sweet and sour cherries (Prunus avium and Prunus cerasus) are important fruit crops for which demand is high and growing. A significant number of new varieties, rootstocks and training systems have been released or developed in recent years in order to improve the efficiency and profitability of cherry orchards. Cherries: Botany, Production and Uses covers the genetics, ecophysiology, production, protection and uses of cherries. Presenting up-to-date scientific data and applied information, this book is invaluable for researchers, teachers and all professionals working in the cherries value chain. Tropical Fruit Tree Diversity Good practices for in situ and on-farm conservation** Routledge **Farmers have developed a range of agricultural practices to sustainably use and maintain a wide diversity of crop species in many parts of the world. This book documents good practices innovated by farmers and collects key reviews on good practices from global experts, not only from the case study countries but also from Brazil, China and other parts of Asia and Latin America. A good practice for diversity is defined as a system, organization or process that, over time and space, maintains, enhances and creates crop genetic diversity, and ensures its availability to and from farmers and other users. Drawing on experiences from a UNEP-GEF project on "Conservation and Sustainable Use of Wild and Cultivated Tropical Fruit Tree Diversity for Promoting Livelihoods, Food Security and Ecosystem Services", with case studies from India, Indonesia, Malaysia and Thailand, the authors show how methods for identifying good practices are still evolving and challenges in scaling-up remain. They identify key principles effective as a strategy for mainstreaming good practice into development efforts. Few books draw principles and lessons learned from good practices. This book fills this gap by combining good practices from the research project on tropical fruit trees with chapters from external experts to broaden its scope and relevance. Carrots and Related Vegetable Umbelliferae** Crop Production Science in Hor **This book series describes the scientific principles of the biology and production of major horticultural crops, considered on a world-wide basis. This volume considers the vegetable Umbelliferae, particularly carrots, celery, fennel, parsley and parsnip. It also provides brief coverage of lesser known vegetable Umbelliferae such as coriander, chervil and skirret as well as herbs such as dill, anise, caraway and cumin. Fruits Tropical and Subtropical Growing Fruits in Hawai‘i (also Herbs, Nuts, and Seeds) A How-to Guide for the Gardener** Bess Press **A guide to growing tasty and healthy fruits, herbs, nuts, and seeds in Hawai'i. Includes recipes. Cucurbits "Completely updated with new content and full-colour figures throughout, this new edition provides succinct and authoritative knowledge relating to the production of cucurbits, including cucumbers, gourds, muskmelons, pumpkins, squashes and watermelons, and reflects on significant recent advances in the areas of production, breeding and evolution"-- Postharvest Physiology and Storage of Tropical and Subtropical Fruits** C A B International **Tropical and subtropical fruits are becoming more important food items in countries where they are produced and also in an increasing number of importing countries in non-tropical zones. For many of the countries where they are grown these crops represent one of the primary ways of earning valuable foreign exchange. In the last few years, fruit production in most tropical and subtropical countries of the world has increased substantially, and most of the fruits grown in these regions now have established and growing markets in North America and Europe. The transport of tropical and subtropical fruits from areas of production to markets in temperate zones raises particular postharvest storage issues, while postharvest losses in the tropics themselves can be considerable. Whilst there are several texts addressing the postharvest needs of temperate fruits, there has not until now been a comprehensive volume dealing with tropical and subtropical fruits. This volume is the first book to deal with the postharvest storage, physiology and conservation of all of the economically important tropical and subtropical fruits. Contributors include leading research workers from throughout the world, including Europe, North, Central and South America, Australia, New Zealand, East and Southeast Asia and the Middle East. The resultant work represents a substantial contribution to this important and fast developing area. The book is essential reading for all horticultural researchers and students working with these crops and for growers, exporters and importers within the industries concerned with tropical and subtropical fruits. Tropical Fruit Pests and Pollinators Biology, Economic Importance, Natural Enemies, and Control** CABI **Insects and other pests cause major economic damage on fruit crops in the tropics. However, some insects are beneficial and have a role in pollinating flowers and thus enabling a fruit set. This book, written by leading authors from around the world, reviews the injurious and beneficial organisms and how they might be controlled to enhance fruit production and quality. Grapes Olives** CABI **This book of 'olives' is the result of many years' endeavours in collecting valuable information from the existing literature concerning the olive tree and its culture; a proportion of this information, and experience, has originated from scientific projects of the author and his scientific team. Topics include all aspects of olive culture, from its history, through traditional practices to modern techniques and horticultural procedures. Furthermore, this book covers the basic physiological and horticultural principles of olive culture in both theory and practice. The objective is to provide knowledge appropriate for students, scientists, both experienced and inexperienced horticulturists and, in general, for anyone wishing to obtain knowledge and experience of olive culture to increase productivity and improve product quality. Arthropod Pests of Horticultural Crops in Tropical Asia** CABI **Agriculture plays a pivotal role in the economy of tropical Asia, but arthropod pests are major constraints to production. This book consolidates the research on pests of South and Southeast Asia, providing useful data for the establishment of sustainable pest management programs. It covers the main arthropod pests of twenty five major crops, with colour photographs of their adult and immature stages, their distribution, biology, disease vectors, symptoms of the damage they cause and their natural enemies. Tropical Fruit Flies (Tephritidae Dacinae) of South-East Asia Indomalaya to North-West Australasia** CABI **As global warming and species migration become more prevalent issues, there is an urgent need for a text that provides comprehensive taxonomic details and geographic distributions of Dacinae fruit flies within south-east Asia. In particular, some of the major pest species of this region are being introduced on a regular basis to new geographical areas, causing widespread food security issues and economic hardship. Quarantine and horticultural organizations require detailed information on these fruit fly species in order to detect and eradicate any new incursions. This major new reference work details the taxonomic research into the subfamily Dacinae, which contains the tropical fruit flies of south-east Asia, as well as many other regions of the world. While focusing on south-east Asian fauna, all known species are included, through a study of the type material available in museums around the world. Specimens collected in major surveys conducted across Asia from 1983 to present have also been used to ensure a complete, in-depth review of this subfamily. Providing complete descriptions and artwork of all species of Dacinae recorded from the south-east Asian region for the first time, this book is written and illustrated by experts with over 80 years' combined research experience. Areas covered include: India, Bhutan, Nepal, Sri Lanka, Myanmar, China, Taiwan, Japan, the Philippines, Palau, Vietnam, Thailand, Singapore, Malaysia and Indonesia. It is an essential reference for departments of agriculture, researchers and students of entomology and quarantine, horticultural and chemical industry personnel worldwide. Key features: - 120 recently discovered species - 500 detailed drawings - Revision of all known species - Updated geographical distributions and host records - Accurate list and detailed information of all known pest species This book will be followed by Keys to Fruit Flies of South-East Asia. Sustainable Horticultural Systems Issues, Technology and Innovation** Springer **Sustainable horticulture is gaining increasing attention in the field of agriculture as demand for the food production rises to the world community. Sustainable horticultural systems are based on ecological principles to farm, optimizes pest and disease management approaches through environmentally friendly and renewable strategies in production agriculture. It is a discipline that addresses current issues such as food security, water pollution, soil health, pest control, and biodiversity depletion. Novel, environmentally-friendly solutions are proposed based on integrated knowledge from sciences as diverse as agronomy, soil science, entomology, ecology, chemistry and food sciences. Sustainable horticulture interprets methods and processes in the farming system to the global level. For that, horticulturists use the system approach that involves studying components and interactions of a whole system to address scientific, economic and social issues. In that respect, sustainable horticulture is not a classical, narrow science. Instead of solving problems using the classical painkiller approach that treats only negative impacts, sustainable horticulture treats problem sources. Indigenous Fruit Trees in the Tropics Domestication, Utilization and Commercialization** CABI **This book comprises 5 parts and 21 chapters discussing the domestication of indigenous fruit trees in Africa, Oceania, Latin America and Asia; and describes the biophysical and socio-economic aspects of Miombo fruit trees. Modified and Controlled Atmospheres for the Storage, Transportation, and Packaging of Horticultural Commodities** CRC Press **Modified atmosphere (MA) and controlled atmosphere (CA) technologies have great potential in a wide range of applications. The increasingly global nature of food production and the increased emphasis on reducing chemical preservatives and pesticides have put the spotlight on these centuries-old technologies. Yet until now, there have been very few current resources available, and none have covered all aspects. Provides extensive background on the theory and application of modified and controlled atmospheres Written by top international experts in research and industry, Modified and Controlled Atmospheres for the Storage, Transportation, and Packaging of Horticultural Commodities explores the science and application of the modified atmosphere (MA) and the controlled atmosphere (CA). It covers all technological applications, including storage, transport, and packaging for all fruits, vegetables, and ornamentals of temperate, subtropical, and tropical origin. Tracing the historical developments of these technologies, it provides information on the ideal conditions to be used for many horticultural commodities. It also outlines the effects of MA and CA on the physiology and biochemistry of these commodities as well as on their flavor and quality. Providing the most comprehensive resource on all basic and applied aspects of these technologies, the text also reviews the vast amount of literature already written on this topic. This extensive work captures, for the first time, the entire subject of MA and CA,**

presenting a complete review of the technological aspects of this important development in food safety and preservation. Horticulture: Plants for People and Places, Volume 1 Production Horticulture Springer **This Trilogy explains “What is Horticulture?”. Volume one of Horticulture: Plants for People and Places describes in considerable depth the science, management and technology which underpins the continuous production of fresh and processed horticultural produce. Firstly, there is a consideration of technological innovation derived from basic scientific discoveries which has given rise to entirely new industries, markets, novel crops and changed social habits. Then follows accounts of the modern production of: Field Vegetables, Temperate Fruit, Tropical Fruit, Citrus, Plantation Crops, Berry Crops, Viticulture, Protected Crops, Flower Crops, New Crops, Post-harvest Handling, Supply Chain Management and the Environmental Impact of Production. Each chapter is written by acknowledged world experts. Never before has such an array of plentiful, high quality fresh fruit, vegetables and ornamentals been available year-round in the World’s retail markets. Horticulture gives consumers this gift of nutritious, high quality, safe and diverse fresh foods. This is achieved by manipulating plant growth, reproduction and postharvest husbandry. The multi-billion dollar international industry achieving this is Production Horticulture the subject of this informative book.**