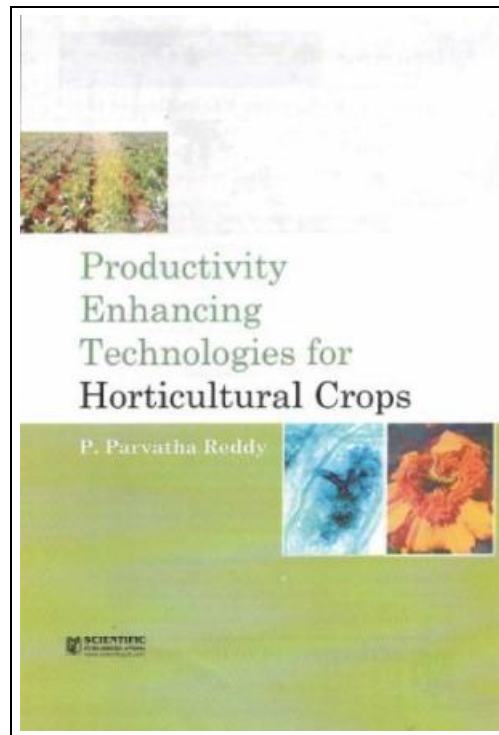


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PRODUCTIVITY ENHANCING TECHNOLOGIES FOR HORTICULTURAL CROPS

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Scientific Publishers, 2011. Hardcover. Condition: New. The average productivity of most horticultural crops in India is low. There is a wide gap between yields obtained and potential yields with improved varieties and technologies. Programmes, therefore, need to be taken up to reduce the yield gap by improving productivity. The present book deals with productivity enhancing technologies such as use of high yielding varieties/hybrids, high density planting, micro-irrigation, fertigation, protected cultivation, bio-regulators, biotechnological approaches, integrated nutrient, weed, pest, disease and nematode management in general and crop-wise in particular. The book is illustrated with excellent quality photographs enhancing the quality of publication. The book is written in lucid style, easy to understand language along with adoptable recommendations for enhancing the productivity. Contents: Section I: Principles of Productivity Enhancing Technologies 1 Introduction 1.1. Growth performance of horticultural sector 1.2. Gap in potential and realized yields 1.3. Potential for enhancing productivity 1.4. Interventions needed for enhancing productivity 1.5. Nutritional security 2 High Yielding Varieties and F1 Hybrids 2.1. High yielding varieties 2.2. F1 Hybrids 2.3. Resistant varieties 2.4. Nutrition rich varieties 3 High density planting 3.1. Methods to achieve HDP 3.2. Advantages of HDP 3.3. Planting system 3.4. Constraints in adoption of HDP systems 4 Micro-irrigation 4.1. Water losses under various irrigation systems 4.2. Area under drip irrigation 4.3. Advantages of micro-irrigation 5 Fertigation 5.1. Advantages of fertigation 5.2. Nutrient use efficiency 6 Integrated nutrient management 6.1. Optimum leaf nutrient status 6.2. Manure and fertilizer recommendations 6.3. Methods of application 6.4. Biofertilizers 7 Bioregulators 7.1. Rapid mass multiplication of the planting material 7.2. Stimulation of lateral branching in young trees 7.3. Induction of flowering 7.4. Promoting the growth and development of fruits 8 Biotechnological approaches 8.1. Tissue culture 8.2. Molecular biology 8.3. DNA fingerprinting 8.4. Genetic engineering 8.5. Perspectives, limitations and environmental risks 9...

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