

Contents

Preface	vii
1 Horticulture – Whole Plant Integration of Many Disciplines	1
2 The Plant Hormones	13
3 Growth, Development, and Plant Movement	33
4 Physiology of Growth in Specific Organs: Roots, Stems, and Leaves	46
5 Physiology of Growth in Specific Organs: Flowers, Fruit, and Seeds	57
6 Some Abiotic Plant Stressors – Oxygen, Minerals, and Salt	84
7 Water and Plants	106
8 Light Energy and Plant Function	139
9 Temperature Effects on Growth and Development of Plants	160
10 The Soil and its Environment	193
11 The Greenhouse Environment	216
12 Seeding and Seedling Establishment	236
13 Pruning, Training, Growth, and Plant Size	252
14 Grafting and Rootstocks	265
15 From Harvest to Market	278
16 Postharvest Physiology	291
17 Human Nutrition, Phytonutrients, Nutraceuticals, and Horticulture	329
References	353
Index	393