

Contents

Chapter 1	Radiation	1
John C. Sager and J. Craig Mc Farlane		
Chapter 2	Temperature	31
Peter R. Hicklenton and Royal D. Heins		
Chapter 3	Humidity	43
L. Arthur Spomer and Theodore W. Tibbitts		
Chapter 4	Carbon Dioxide	65
Mary M. Peet and Donald T. Krizek		
Chapter 5	Air Contaminants	81
Theodore W. Tibbitts		
Chapter 6	Air Movement	87
Robert J. Downs and Donald T. Krizek		
Chapter 7	Plant Culture in Solid Media	105
L. Arthur Spomer, Wade L. Berry, and Theodore W. Tibbitts		
Chapter 8	Plant Culture in Hydroponics	119
Wade L. Berry and Sharon Knight		
Chapter 9	Plant Physiological Disorders	133
Robert C. Morrow and R. M. Wheeler		
Chapter 10	Pests and Diseases	143
John P. Sanderson and R. Kenneth Horst		
Chapter 11	Special Use Chambers	161
J. Craig McFarlane, Robert C. Morrow, Douglas P. Ormrod, and Steven H. Schwartzkoff		
Chapter 12	Chamber Maintenance	171
Robert W. Langhans and Theodore W. Tibbitts		
Chapter 13	Experimental Design	177
P. Allen Hammer and Douglas A. Hopper		
Chapter 14	Writing Chamber Specifications	189
William W. Wade, William A. Bailey, and Herschel H. Klueter		
Chapter 15	Guidelines for Measurement and Reporting of Environmental Conditions	207
Donald T. Krizek, John C. Sager, and Theodore W. Tibbitts		
Appendix	Crop Growth Requirements	217
Douglas A. Hopper, Gary W. Stutte, Ann McCormack, Daniel J. Barta, Royal D. Heins, John E. Erwin, and Theodore W. Tibbitts		
Index		227

