Contents

Preface Preface of the Fourth Edition About the Author List of Abbreviations	vii ix xi xiii	11. Virus-Plant Interactions in Non-Permissive and Permissive Hosts12. Plant to Plant Movement	605 669
Section I Introduction		Section III Applied Aspects	
1. Introduction	3	13. Assay, Detection, and Diagnosis	
2. Plant Viruses and Their Classification	n 15	of Plant Viruses	755
3. Architecture and Assembly of Virus Particles	69	Ecology, Epidemiology, and Control of Plant Viruses	809
4. Symptoms and Host Range	145	15. Plant Viruses and Technology	877
5. Agents Resembling or Altering Virus Diseases	199	Section IV Plant Virus Viromics	
Section II Virus-Plant-Vector; Molecular Mechanisms and Interactions		16. Plant Virus Viromics: Involvement of Genomes of Three Organisms — Virus, Host, and Vector	929
6. Genome Composition,		Appendix A Profiles of Families and Genera of	
Organization, and Expression	247	Plant Viruses	973
7. Replication of Plant Viruses	341	Appendix C Plant Virus Genomes Appendix D List of Plant Virus Names in Alphabetical Order and Their Abbreviations That Are Used in the Ninth ICTV Report	1043 1047
8. Origins and Evolution of Plant Viruses	423		
9. Virus-Plant Interactions: RNA Silencing	477		1053 1091
10. Movement of Viruses Within Plants	531		