

Contents

Preface	v
Chapter 1: CITRUS DISEASES	1
Gummosis and root-rot of citrus	1
Anthracnose, die-back or wither tip	9
Armillaria root-rot of citrus trees	12
Post-harvest decay of citrus fruits	15
Citrus canker	28
Citrus greening disease	37
Citrus tristeza virus	39
Xyloporosis or cachexia	46
Psorosis or scaly bark	47
Citrus exocortis viroid	49
Citrus root nematode	50
Spreading decline of citrus	55
Nutritional disorders in citrus	56
References	62
Chapter 2: DISEASES OF POME AND STONE FRUITS	73
Apple scab	73
Powdery mildew of apple	91
Peach leaf curl	96
Collar rot of apple trees	99
White root rot of apple	103
Brown rot of pome and stone fruits	106
Botryosphaeria white rot, root rot and stem brown	111
Botryosphaeria black rot and twig canker	113
Bitter rot of apple	115
Post-harvest decay of pome and stone fruits	117
Pink mold rot	121
Mucor rot of pome and stone fruits	122

Fire blight of apple and pear	125
Crown gall disease	131
Bacterial canker and gummosis	135
<i>References</i>	140

Chapter 3: MANGO DISEASES **153**

Bacterial leaf spots, blight and canker	153
Powdery mildew of mango	157
Anthracnose and die-back	159
Twig blight, die-back, and leaf blight	163
Grey blight	166
Red rust	167
Post-harvest fungal rots of fruits	167
Black tip or mango necrosis	172
Mango malformation	173
Giant or leafy mistletoes	176
<i>References</i>	178

Chapter 4: BANANA DISEASES **183**

Fusarium wilt of banana (Panama disease)	183
Cercospora leaf spots or Sigatoka	189
Post-harvest decay of banana fruits	193
Bacterial wilt or Moko disease	197
Bunchy top of banana	201
Root and rhizome rot of banana	204
<i>References</i>	207

Chapter 5: DISEASES OF GRAPEVINES AND GRAPES **212**

Downy mildew	212
Powdery mildew	219
Bunch rot	227
Black rot	230
Anthracnose	233
<i>References</i>	230

Chapter 6: GUAVA DISEASES **242**

Anthracnose and fruit rots	242
Grey blight, leaf spots and scab	245
Guava wilt	246
Zinc deficiency	249
<i>References</i>	251

Chapter 7: DISEASES OF PAPAYA **253**

Stem and foot rot	253
-------------------	-----

Phytophthora root rot	254
Algal fruit spots	257
Post-harvest fruit rots	257
Papaya mosaic (ringspot)	259
Leaf curl of papaya	262
References	263
Chapter 8: STRAWBERRY DISEASES	265
Anthracnose of strawberry	265
Mycosphaerella leaf spots	270
Red stele	272
Black root rot complex	274
Fungal rots of strawberry fruits	275
References	278
Chapter 9: DISEASES OF COCONUT PALM	281
Bud rot	281
Stem bleeding disease	283
Root (wilt) disease	284
Cadang-cadang	285
Leaf spots of coconut	287
Red ring disease	287
References	289
Chapter 10: MISCELLANEOUS TROPICAL FRUITS	290
Heart or stem rot and wilt of pineapple	290
Basal rot, leaf rot and fruit rot of pineapple	291
Bacterial leaf spots of pomegranate	292
Aspergillus rot of pomegranate	292
Leaf spots of litchi	293
Fruit rot of litchi	294
Die-back, twig blight and canker of loquat	294
Decline of cashewnut trees	295
Anthracnose of cashewnut	296
Pestalotia and other leaf spots of sapodilla plum	297
References	297
<i>Index</i>	298
<i>About the Author</i>	311