

CONTENTS.

PART I.

	PAGE
INTRODUCTION	1
MISCELLANEOUS ORDERS—PRELIMINARY OBSERVATIONS	3

CHAPTER I.

THE ORDER <i>RANUNCULACEÆ</i> : illustrated by the Garden Ranunculus; the Butter-cup; the Peony; the Anemone; the Hepatica; the Clematis; the Christmas Rose; the Winter Aconite; Monkshood; the Larkspur; and the Columbine	9
The Genus <i>Ranunculus</i> , 10—The Genus <i>Ficaria</i> , 16—The Genus <i>Pæonia</i> , 18—The Genus <i>Anemone</i> , 19—The Genus <i>Clematis</i> , 23—The Genus <i>Helleborus</i> , &c. 25—The Genus <i>Aconitum</i> , 27—The Genus <i>Delphinium</i> , 29—The Genus <i>Aquilegia</i> , 31.	

CHAPTER II.

THE ORDER <i>LEGUMINOSÆ</i> : illustrated by the Sweet Pea; the Red Clover; <i>Acacia armata</i> ; the Sensitive Plant; the Barbadoes Flower-fence; the Carob-tree; the Tamarind; the Senna; the Gleditschia; the Logwood; the Judas-tree; and the Kentucky Coffee-tree	35
Tribe I. Papilionaceous Flowers, 36—II. Mimosæ, 41—III. Cæsalpinæ, 44.	

CHAPTER III.

THE ORDER <i>ROSACEÆ</i> : illustrated by different kinds of Roses; the Potentilla; the Strawberry; the Raspberry; <i>Spiræa</i> ; <i>Kerria</i> or <i>Corchorus japonica</i> ; the Almond; the Peach and Nectarine;	
--	--

x	CONTENTS.	
		PAGE
	the Apricot ; the Plum ; the Cherry ; the Apple ; the Pear ; The Mountain Ash ; the White Beam Tree ; the Quince ; Pyrus or Cydonia japonica ; the Hawthorn ; the Indian Hawthorn ; the Medlar ; Photinia ; Eriobotrya ; Cotoneaster ; Amelanchier ; Burnet ; and Alchemilla, or Ladies' Mantle	50
	Tribe I. Roseæ, 51—II. Potentillæ or Dryadæ, 54—III. Spirææ, 58—IV. Amygdalæ, 60—V. Pomæ, 65—VI. Sanguisorbæ, 73.	
	CHAPTER IV.	
	THE ORDER ONAGRACEÆ : illustrated by the different kinds of Fuchsia ; Enothera, or the Evening Tree-Primrose ; Godetia ; Epilobium, or the French Willow-herb ; and Clarkia	75
	The Genus Fuchsia, 75—The Genus Enothera, 79—The Genus Clarkia, 83.	
	CHAPTER V.	
	THE ORDER RUBIACEÆ : illustrated by the Cinchona, or Peruvian Bark ; Luculia gratissima ; Cape Jasmine ; Rondeletia ; Coffee ; Ixora ; Ipecacuanha ; Madder ; Galium ; Woodruff ; and Crucinella stylosa	85
	The Genus Cinchona and its allies, 86—The Genus Gardenia and its allies, 89—The Genus Rondeletia and its allies, 90—The Genus Coffea and its allies, 91—The Genus Galium and its allies, 94.	
	CHAPTER VI.	
	THE ORDER COMPOSITÆ : illustrated by the Succory ; the Sow- Thistle ; the Dandelion ; the Burdock ; the Daisy ; the Chry- santhemum ; Feverfew ; Pellitory of Spain ; Wild Chamomile ; True Chamomile ; Yarrow ; the Bur-Marigold ; Groundsel ; Ragwort ; Bird's Tongue ; Purple Jacobæa ; Cineraria ; Sun- flower ; Mutisia ; and Triptilion	98
	Tribe I. Cichoraceæ, 101—II. Cynarocephalæ, 103—III. Corymbi- feræ, 104—IV. Labiataefloræ, 107.	
	CHAPTER VII.	
	THE ORDER ERICACEÆ : illustrated by the Common or Besom Heath ; the Moor Heath ; Cape Heaths ; Ling or Heather ; Andromeda ; Lyonia ; St. Dabæoc's Heath ; Arbutus ; the	

CONTENTS. xi

	PAGE
Bearberry; Gaultheria; Clethra; Rhododendron; Indian or Chinese Azaleas; Yellow Azalea; American Azaleas; Rhodora; Kalmia; Menziesia; Loiseleuria; Ledum; Leiophyllum; the Bilberry; the Whortleberry; the Cranberry; Pyrola; and Monotropa	109
Tribe I. Ericææ, 110—Sub-Tribe I. Ericææ Normales, 111—II. Andromedææ, 115—Tribe II. Rhodoreæ, 120—III. Vacciniææ, 130—IV. Pyroleæ, 132.	

CHAPTER VIII.

THE ORDER OLEACEÆ, or Jasmineæ: illustrated by the Common White Jasmine; the Yellow Jasmine; the Privet; the Phillyrea; the Olive; the Fringe-tree (<i>Chionanthus virginica</i>); the Lilac; the Common Ash; and the Manna or Flowering Ash	
	133
Tribe I. Jasmineæ, 134—II. Oleineæ, 136.	

CHAPTER IX.

THE ORDER SOLANACEÆ: illustrated by the Bitter-Sweet; Garden Nightshade; Potato; Egg-Plant; Tomato; Capsicum; Winter Cherry; Cape Gooseberry; the Deadly Nightshade; Lycium, or Duke of Argyle's Tea-tree; Cestrum; Vestia; Tobacco; Petunia; Nierembergia; Salpiglossis; Schizanthus; Henbane; Datura; Brugmansia; Solandra; Verbascum; Celsia; Nolana; &c.	
	141
Tribe I. Solanaceæ, 142—II. Nicotianææ, 147; III. Verbascineæ, 153—IV. Nolanææ, 155.	

CHAPTER X.

THE ORDER URTICACEÆ: illustrated by the Common Nettle; the Hop; the Hemp; the Pellitory of the Wall; the Bread-Fruit Tree; the Jack-tree; the Cow-tree, or Palo de Vacca; the Upas or Poison-tree of Java; the Mulberry; the Paper Mulberry; the Osage Orange, or Maclura; the Common Fig; Ficus Sycamorus; the Banyan Tree; the Indian-Rubber Tree; and Ficus religiosa	
	157
Tribe I. Urticaceæ, 158—II. Artocarpææ, 163.	

CHAPTER XI.

	PAGE
THE CATKIN-BEARING TREES : illustrated by the Walnut: the Hickory; the Willow; the Poplar; the Alder; the Birch; the Oak; the Beech; the Sweet Chesnut; the Hazel; the Hornbeam; the Hop Hornbeam; the Plane Trees; the Liquidambar; Myrica; Comptonia; Casuarina; and Garrya elliptica	174
Juglandaceæ, the Walnut Tribe, 176—the Genus Juglans, ib.—the Genus Carya, 180—Salicaceæ, the Willow Tribe, 181—the Genus Salix, 182—the Genus Populus, 184—Betulaceæ, the Birch Tribe, 187—the Genus Betula, 188—the Genus Alnus, 189—Cupuliferæ, the Cup-bearing Trees, 190—the Genus Quercus, 191—the Genus Fagus, 195—the Genus Castanea, 198—the Genus Corylus, 200—the Genus Carpinus, 201—the Genus Ostrya, 202—the Order Platanaceæ, ib.—the Genus Platanus, ib.—the Genus Liquidambar, 203—the Order Myricaceæ, ib.—the Genus Myrica, 204—the Order Garryaceæ, ib.—the Genus Garrya, ib.	

CHAPTER XII.

THE CONE-BEARING TREES : illustrated by the Scotch Pine; the Spruce Fir; the Silver Fir; the Larch; the Cedar; the Araucaria; the Arbor Vitæ; the Cypress; the Deciduous Cypress; the Juniper; the Yew; and the Cycadæ	205
§ I. The Abietinæ, the Pine and Fir Tribe, 208—the Genus Pinus, 209—the Genus Abies, the Spruce Fir, 212—the Genus Picea, the Silver Fir, 214—the Genus Larix, the Larch, 216—the Genus Cedrus, the Cedar, 217—the Genus Araucaria, 219—§ II. Cupressinæ, the Cypress Tribe, 220—the Genus Callitris, 222—the Genus Cupressus, the Cypress, 223—the Genus Taxodium, the Deciduous Cypress, 224—the Genus Juniperus, the Juniper, 225—§ III. Taxinæ, the Yew Tribe, 228—the Genus Taxus, the Yew, ib.—the Order Cycadæ, 229.	

CONTENTS. xiii

PART II.

	PAGE
SKETCH OF THE NATURAL SYSTEM, ACCORDING TO PROFESSOR DECANDOLLE	231
INTRODUCTION	ib.

CHAPTER I.

PHANEROGAMOUS PLANTS—DICOTYLEDONEÆ—I. DICHLAMYDEÆ . 239	
ORDER	PAGE
§ I.—THALAMIFLORÆ.	
1. Ranunculaceæ	239
2. Dilleniaceæ	240
3. Magnoliaceæ	241
4. Anonaceæ—the Custard- apple Tribe	245
5. Menispermaceæ—the Coc- culus Tribe	246
6. Berberideæ—the Berberry Tribe	247
7. Podophyllaceæ—the May- apple Tribe	253
8. Hydropeltideæ	254
9. Nymphæaceæ—the Wa- ter-lily Tribe	ib.
10. Sarraceniæ—the Side-sad- dle Plant	259
11. Papaveraceæ—the Poppy- Tribe	ib.
12. Fumariaceæ—the Fumi- tory Tribe	266
13. Cruciferae—Cruciferous Plants	ib.
14. Resedaceæ—the Migno- nette	271
15. Datisceæ	273
16. Capparideæ—the Caper Tribe	274
17. Flacourtiaceæ	275
18. Bixinæ—the Arnotta Tribe	ib.
19. Cistineæ—the Cistus Tribe	ib.
ORDER	PAGE
20. Violaceæ—the Violet Tribe	279
21. Droseraceæ—the Sun-dew Tribe	284
22. Polygalæ—the Milkwort Tribe	285
23. Tremandrea	286
24. Pittosporæ—the Pitto- sporum Tribe	287
25. Frankeniaceæ—the Fran- kenia Tribe	288
26. Caryophyllaceæ—the Car- nation Tribe	289
27. Linaceæ—the Flax Tribe	293
28. Malvaceæ—the Mallow Tribe	296
29. Bombaceæ—the Silk Cot- ton-tree Tribe	299
30. Byttneriaceæ	300
31. Tiliaceæ—the Linden Tribe	301
32. Elæocarpæ—the Elæocar- pus Tribe	302
33*. Dipterocarpæ—the Cam- phor-tree Tribe	303
33. Chelonaceæ, or Hugonia- ceæ	ib.
34. Ternstroemiaceæ	ib.
35. Camelliaceæ—the Camel- lia Tribe	304
36. Olacineæ—the Olax Tribe	307
37. Aurantiaceæ—the Orange Tribe	307

ORDER	PAGE	ORDER	PAGE
38. Hypericineæ—the Hypericum Tribe	312	68. Rosaceæ — (See Chap. iii. in p. 50)	350
39. Guttiferæ—the Mangos-teen Tribe	313	69. Calycanthaceæ	351
40. Marcgraaviaceæ	ib.	70. Granatææ	352
41. Hippocrataceæ	ib.	71. Memecyleæ	353
42. Erythroxyleæ—the Red Wood Tribe	314	72. Combretaceæ	ib.
43. Malpighiaceæ—the Barba- does Cherry Tribe	314	73. Vochysieæ	ib.
44. Acerineæ—the Maple Tribe	315	74. Rhizophoreæ	ib.
45. Hippocastaneæ, or Æscu- laceæ—the Horse-chest- nut Tribe	322	75. Lophireæ	354
46. Rhizoboleæ—the Caryocar Tribe	327	76. Onagrarieæ—(See Chap. iv. in p. 75)	ib.
47. Sapindaceæ—the Soap-tree Tribe	ib.	77. Halorageæ, or Cercodiaceæ	355
48. Meliaceæ—the Bead-tree Tribe	328	78. Ceratophylleæ	ib.
48*. Cedreleæ—the Mahogany Tribe	329	79. Lythrarieæ, or Salicariæ	356
49. Ampelideæ—the Vine Tribe	ib.	80. Tamariscineæ—the Ta- marisk Tribe	ib.
50. Geraniaceæ—the Gera- nium Tribe	332	81. Melastomaceæ	357
51. Tropæolaceæ—the Nastur- tium Tribe	337	82. Alangieæ	ib.
51*. Limnantheæ	ib.	83. Philadelphææ—the Mock- orange Tribe	358
52. Balsamineæ—the Balsam Tribe	338	84. Myrtaceæ—the Myrtle Tribe	ib.
53. Oxalideæ—the Wood-sor- rel Tribe	339	85. Cucurbitaceæ—the Gourd Tribe	360
54. Zygophylleæ—the Bean- caper Tribe	340	86. Passifloreæ—the Passion- flower Tribe	361
55. Rutaceæ—the Rue Tribe	ib.	86*. Malesherbiaceæ	362
56. Simarubaceæ	342	87. Loasææ	ib.
57. Ochnaceæ	ib.	88. Turneriaceæ	363
58. Coriariæ	ib.	89. Portulacææ—the Purslane Tribe	364
§ II.—CALYCIFLORÆ.		90. Paronychieæ	365
59. Celastrineæ	343	91. Crassulaceæ—the House- leek Tribe	ib.
60. Rhamnaceæ	345	92. Ficoideæ—the Fig-mari- gold Tribe	367
61. Bruniaceæ	346	93. Cactaceæ—the Cactus Tribe	368
62. Samydeæ	ib.	94. Grossularieæ—the Goose- berry Tribe	372
63. Homalineæ	ib.	95. Escalloniaceæ	376
64. Chaillietiaceæ	347	96. Saxifragaceæ	377
65. Aquilarineæ	ib.	97. Cunoniaceæ	378
66. Terebinthaceæ—the Tur- pentine Tribe	ib.	98. Umbelliferæ—Umbellife- rous Plants, or the Parsley Tribe	ib.
67. Leguminosæ—(See Chap. iv. in p. 35)	349	99. Araliaceæ	379
		99*. Hamamelideæ	380
		100. Caprifoliaceæ, or the Ho- neysuckle Tribe	381
		101. Loranthææ	385
		102. Chloranthææ	386

CONTENTS. xv

ORDER	PAGE	ORDER	PAGE
103. Rubiaceæ (See Chap. v. p. 85)	386	125. Jasmineæ (See Chap. viii. p. 134)	401
104. Operculariæ	387	126. Strychnæ	ib.
105. Valerianæ—the Valerian Tribe	ib.	127. Apocynæ	403
106. Dipsacæ—the Teasel Tribe	389	128. Asclepiadæ	ib.
107. Calyceræ	390	129. Gentianæ—the Gentian Tribe	ib.
108. Compositæ (See Chap. vi. p. 98)	ib.	130. Bignoniæ	404
109. Lobeliæ	391	131. Cobæacæ	405
110. Stylidæ	393	132. } Pedalinæ and Sesameæ	ib.
111. Goodenoviæ	ib.	133. }	
112. Campanulacæ—the Campanula Tribe	394	134. Polemoniæ	406
113. Gesneriæ	395	135. Hydroleacæ	407
114. Vaccinæ (See Chap. vii. p. 130)	ib.	136. Convolvulæ	ib.
115. Ericacæ (See Chap. vii. p. 109)	ib.	137. Boraginæ	409
116. Peneacæ	396	138. Cordiacæ	410
§ III.—COROLLIFLORE.			
117. Epacridæ	396	139. Hydrophyllæ	ib.
118. Symplocinæ	397	140. Solanacæ (See Chap. ix. p. 141)	ib.
119. Styracineæ	398	141. Scrophularinæ	411
120. Myrsinæ	399	142. Labiata	412
121. Sapotæ	ib.	143. Verbenacæ—the Vervain Tribe	414
122. Ebenacæ	400	144. Myoporinæ	415
123. Brexiæ	ib.	145. Acanthacæ	ib.
124. Oleinæ (See Chap. viii. p. 136)	401	146. Orobanchæ	416
		147. Lentibulariæ	ib.
		148. Primulacæ—the Primrose Tribe	ib.
		149. Globulariæ	418
		150. Plumbaginæ	ib.

CHAPTER II.

PHANEROGAMOUS PLANTS—DICOTYLEDONEÆ—II. MONOCHLAMYDEÆ 419	
151. Plantaginæ	419
152. Nyctaginæ	420
153. Amaranthacæ	ib.
154. Phytolacæ	421
155. Chenopodæ	ib.
156. Begoniæ	422
157. Polygonæ—the Buckwheat Tribe	423
158. Laurinæ—the Sweet-bay Tribe	424
159. Myrsiticæ	425
160. Proteacæ	ib.
161. Thymelæ	426
162. Osyridæ	427
163. Santalacæ	ib.
164. Elæagnæ	428
165. Asarinæ, or Aristolochiæ	ib.
166. Cytinæ	429
167. Euphorbiacæ	429
168. Stackhouseæ	431
169. Antidesmæ	ib.
170. Urticæ (See Chap. x. p. 157)	ib.
171. Ulmacæ	432
172. Piperacæ	ib.
173. Juglandacæ (See Chap. xi. p. 176)	ib.
174. Amentacæ (See Chap. xi. p. 174)	433
175. Hamamelidæ	ib.
176. Empetræ	ib.
177. Coniferæ (See Chap. xii. p. 205)	434
178. Cycadæ (See Chap. xii. p. 229)	ib.

CHAPTER III.

PHANEROGAMOUS PLANTS—MONOCOTYLEDONEÆ 435	
ORDER	PAGE
§ I.—PETALOIDEÆ.	
179. Hydrocharidææ — the Frog's-bit Tribe	435
180. Alimacææ — the Water- plantain Tribe	436
181. Butomeææ—the Flowering- rush Tribe	437
182. Juncaginææ — the Arrow- grass Tribe	438
183. Orchidacææ	ib.
184. Scitamineæ	441
185. Cannææ	442
186. Muscææ	ib.
187. Iridacææ	443
188. Hæmodoracææ	445
189. Hypoxidææ	446
190. Amaryllidacææ	ib.
191. Hemerocallidææ	447
192. Dioscoreææ	ib.
193. Tamacææ	448
194. Smilacææ	ib.
195. Asphodeleææ	449
ORDER	PAGE
196. Tulipacææ	450
197. Melanthacææ	451
198. Bromeliacææ	ib.
199. Pontederacææ	452
200. Commelinææ	ib.
201. Palmææ—the Palm Tribe	ib.
202. Pandanææ	453
203. Typhinææ — the Bulrush Tribe	ib.
204. Aroidææ—the Arum Tribe	454
205. Fluviales, or Naiades—the Pond-weed Tribe	455
206. Juncææ—the Rush Tribe	456
207. Gillesieææ	ib.
208. Restiaceææ—the Pipewort Tribe	ib.
§ II.—GLUMACÆÆ.	
209. Cyperacææ — the Sedge Tribe	457
210. Graminææ — the Grass Tribe	458

CHAPTER IV.

CRYPTOGAMOUS PLANTS 460	
SUB-CLASS I.—FOLIACÆÆ.	
211. Filices—the Fern Tribe	461
212. Lycopodinææ—the Club- moss Tribe	463
213. Marsileacææ	464
214. Equisetacææ—the Horse- tail Tribe	ib.
215. Characææ	465
216. Musci—the Moss Tribe	466
217. Hepaticææ	468
SUB-CLASS II.—APHYLLEÆÆ.	
218. Lichenes	ib.
219. Fungi	470
220. Algææ	471