

Contents

Preface	ix
Acknowledgments	xi

SECTION I: Normal Gross and Angiographic Anatomy of the Craniocervical Vasculature

1 The Aortic Arch and Great Vessels	3
2 The External Carotid Artery	31
3 The Internal Carotid Artery: Cervical, Petrous, and Lacerum Segments	57
4 The Internal Carotid Artery: Cavernous, Clinoid, Ophthalmic and Communicating Segments	83
5 The Circle of Willis	105
6 The Anterior Cerebral Artery	117
7 The Middle Cerebral Artery	135
8 The Posterior Cerebral Artery	153
9 The Vertebrobasilar System	173
10 The Extracranial Veins and Dural Venous Sinuses	195
11 The Cerebral Veins	217

SECTION II: Pathology of the Craniocervical Vasculature

12 Intracranial Aneurysms	241
13 Vascular Malformations	277
14 Neoplasms and Mass Effects	313
15 Nonatheromatous Vasculopathy	341
16 Atherosclerosis and Carotid Stenosis	359
17 Stroke	381
18 Trauma	405

SECTION III: Technical Aspects of Cerebral Angiography *by John M. Jacobs*

19 Diagnostic Neuroangiography: Basic Techniques	421
Subject Index	447