This practical and comprehensive book provides "how-to" information on all aspects of access to the vascular system for hemodialysis, parenteral nutrition, chemotherapy, and resuscitation.

This edition provides increased coverage of non-interventional techniques and includes new chapters on management of thrombophilia in hemodialysis patients; modulation of the immune system to prevent myointimal hyperplasia; synthetic grafts; venous outflow stenting for salvage of vascular access procedures; and ultrasound in vascular access procedures. Preoperative evaluation, operations, noninvasive procedures, complications, and other aspects are detailed.

This book is essential for all clinicians treating patients who require vascular access, including vascular surgeons, general surgeons, nephrologists, dialysis technicians and nurses, radiologists, and cardiologists.

Key Features:

--NEW! Increased emphasis on non-interventional techniques
--NEW! NEW CHAPTER: management of thrombophilia in hemodialysis patients
--NEW! NEW CHAPTER: new approaches for modulation of the immune system to prevent myointimal hyperplasia
--NEW! NEW CHAPTER: synthetic grafts
--NEW! NEW CHAPTER: techniques and results of venous outflow stenting for salvage of vascular access procedures
--NEW! NEW CHAPTER: ultrasound in vascular access procedures
--Comprehensive--covers all areas of vascular access, not just dialysis access
--Focuses on "how to do it" information
--Multidisciplinary
<table>
<thead>
<tr>
<th>Pages</th>
<th>328</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illustrations</td>
<td>244</td>
</tr>
</tbody>
</table>

Included In:
- Lippincott Williams & Wilkins Cardiology Book Collection
- Lippincott Williams & Wilkins Core Reference Collection in Surgery
- Lippincott Williams & Wilkins Medical Book Collection 2017
- Lippincott Williams & Wilkins Total Access Book Collection All Books 2018