



# **Mechanical Circulatory Support: Principles and Applications: Principles and Applications**

*David Joyce, Lyle Joyce, Matthias Locke*

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## An all-in-one guide to mechanical assist devices for the treatment of heart failure

This complete guide addresses all of the clinical scenarios encountered by the health care team during the pre-operative, intra-operative, and post-operative periods following device implantation. In addition, it outlines the specific attributes of various technologies that are currently utilized by clinicians, giving you a practical view of how the latest devices work. You'll also find a mini-catalog of the spectrum of current devices, complete with their technical and clinical specifications.

Drawing on the latest published data and the combined global expertise of a renowned author team, *Mechanical Circulatory Support* puts the field's most essential perspectives right at your fingertips.

### FEATURES:

- **The unmatched mechanical circulatory device sourcebook**, covering the physiological, technical, regulatory, and clinical aspects of ventricular assist devices
- **Full-color presentation** features a wide range of photographs, radiographs, tables, and clearly labeled clinical and schematic illustrations
- **Essential insights into the physiology of heart failure**, which provides a basic foundation of knowledge for understanding the role of mechanical circulatory assistance in the management of heart failure
- **Logical two-part organization** consisting of: **Clinical Considerations** in mechanical circulatory support, including device history/development and indications for device therapy; perioperative management; complications; and special considerations (use in infants/children, pulmonary hypertension during LVAD support, and more)  
**Device-Specific Considerations**, which provides a mini-catalog of manufacturer's devices—from short-term devices to long-term continuous flow devices—and highlights technical and clinical specifications for each product
- **Guide to appropriate device selection using a simplified framework** in an industry that produces an increasing array of short- and long-term therapies
- **Helpful chapter introductions** provide essential background information that places each chapter topic in its proper clinical and technical context
- **Conclusions at the end of each chapter** offer a concise summary of chapter material
- **Full chapter-ending references** provide opportunities for further research

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