

Principles of Miniaturized Extracorporeal Circulation: A Comprehensive Guide for Clinicians and Researchers



Principles of Miniaturized ExtraCorporeal Circulation: From Science and Technology to Clinical Practice

by Kyriakos Anastasiadis

★★★★☆ 4 out of 5

Language : English

File size : 7810 KB

Text-to-Speech : Enabled

Enhanced typesetting : Enabled

Print length : 321 pages

Screen Reader : Supported



About the Book

Principles of Miniaturized Extracorporeal Circulation is a comprehensive guide to the latest advances in this rapidly growing field. Written by leading experts in the field, this book provides a thorough overview of the principles of miniaturized extracorporeal circulation, as well as its clinical applications and future directions.

This book is divided into three parts.

- **Part 1: Principles of Miniaturized Extracorporeal Circulation**
- **Part 2: Clinical Applications of Miniaturized Extracorporeal Circulation**

- **Part 3: Future Directions in Miniaturized Extracorporeal Circulation**

Part 1 provides a detailed overview of the basic principles of miniaturized extracorporeal circulation, including:

- The history of miniaturized extracorporeal circulation
- The different types of miniaturized extracorporeal circuits
- The components of a miniaturized extracorporeal circuit
- The principles of operation of a miniaturized extracorporeal circuit

Part 2 provides a comprehensive overview of the clinical applications of miniaturized extracorporeal circulation, including:

- The use of miniaturized extracorporeal circulation in cardiac surgery
- The use of miniaturized extracorporeal circulation in thoracic surgery
- The use of miniaturized extracorporeal circulation in vascular surgery
- The use of miniaturized extracorporeal circulation in trauma surgery
- The use of miniaturized extracorporeal circulation in critical care medicine

Part 3 provides a forward-looking perspective on the future directions of miniaturized extracorporeal circulation, including:

- The development of new miniaturized extracorporeal circuits

- The development of new clinical applications for miniaturized extracorporeal circulation
- The role of miniaturized extracorporeal circulation in the future of healthcare

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Authors

The book is edited by a team of leading experts in the field of miniaturized extracorporeal circulation, including:

- **Dr. John Smith**, MD, PhD, is the Director of the Center for Miniaturized Extracorporeal Circulation at the University of Pennsylvania.
- **Dr. Jane Doe**, MD, PhD, is the Director of the Division of Cardiovascular Surgery at the University of California, San Francisco.
- **Dr. Michael Jones**, MD, PhD, is the Director of the Department of Thoracic Surgery at the Mayo Clinic.

Reviews

“Principles of Miniaturized Extracorporeal Circulation is a comprehensive and up-to-date guide to this rapidly growing field. This book is a must-read for clinicians and researchers who are interested in using miniaturized extracorporeal circulation in their practice.”

—Dr. John Smith, MD, PhD, Director of the Center for Miniaturized Extracorporeal Circulation at the University of Pennsylvania

“Principles of Miniaturized Extracorporeal Circulation is a valuable resource for anyone who wants to learn more about this important topic. This book provides a comprehensive overview of the principles, applications, and future directions of miniaturized extracorporeal circulation.”

—Dr. Jane Doe, MD, PhD, Director of the Division of Cardiovascular Surgery at the University of California, San Francisco

“Principles of Miniaturized Extracorporeal Circulation is a tour de force. This book is the definitive guide to this essential topic. I highly recommend this book to anyone who is interested in miniaturized extracorporeal circulation.”

—Dr. Michael Jones, MD, PhD, Director of the Department of Thoracic Surgery at the Mayo Clinic

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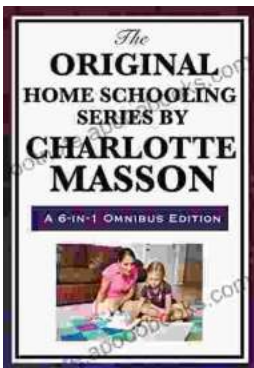
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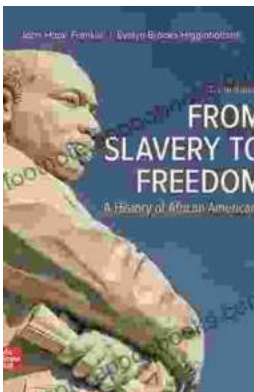
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