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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Section I. Fundamental Principles of Monitoring -- 1. Overview of Clinical Monitoring -- 2. Monitoring in Acute Care Environments: Unique Aspects of Intensive Care Units, Operating Rooms, Recovery Rooms, Telemetry Floors -- 3. Introduction to Signals -- 4. Signal Analysis: Acquisition, Storage, and Analysis of Physiological Signals -- 5. Information Displays and Ergonomics -- 6. Decision Support and Closed-Loop Systems -- Section II. Hemodynamic Monitoring -- 7. Introduction to Hemodynamic Monitoring -- 8. Pulmonary Artery Catherization -- 9. Non-invasive Cardiac Output Monitoring -- 10. Transpulmonary Thermodilution -- 11. Echocardiography in the Acute Care Setting -- 12. Non-invasive Arterial Pressure Monitoring -- 13. Heart Rate Variability -- 14. Preload-Dependent Monitoring -- 15. Monitoring the Microcirculation in Critically Ill Patients -- 16. Hemodynamic Monitoring During Cardiopulmonary Bypass -- 17. Closed-Loop Fluid Management and Hemodynamic Optimization --

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Sommario/riassunto

This is an introduction to the patient monitoring technologies that are used in today's acute care environments, including the operating room, recovery room, emergency department, intensive care unit, and telemetry floor. To a significant extent, day-to-day medical decision-making relies on the information provided by these technologies, yet how they actually work is not always addressed during education and training. The editors and contributors are world-renowned experts who specialize in developing, refining, and testing the technology that makes modern-day clinical monitoring possible. Their aim in creating the book is to bridge the gap between clinical training and clinical practice with an easy to use and up-to-date guide.

- How monitoring works in a variety of acute care settings
- For any healthcare professional working in an acute care environment
- How to apply theoretical knowledge to real patient situations
- Hemodynamic, respiratory, neuro-, metabolic, and other forms of monitoring
- Information technologies in the acute care setting
- New and future technologies.
