With the introduction of cardiac surgery more than a century ago, open heart surgery procedures have been performed, the complex task has been given to the Perfusor. With a partner in perfusion and a surgeon for each chapter, this book is an essential collection of techniques and protocols to aid in decision making in the operating room.

Confidently divide a safe and successful ‘plan for the pump run’ for patients undergoing surgery for congenital heart disease. This practical guide for perfusionists and other members of the cardiac surgical team provides information on the devices, technology and techniques required for successful bypass of patients with congenital heart defects. A practical, spiral-bound guide to reference in the operating theatre and ICU. This text accompanies the surgeon along this path, and provides clinical insight and patient care in a readily accessible manner. Core Topics in Cardiac Anesthesia, Second Edition is essential reading for residents and fellows in anesthesia and cardiac surgery and clinical perfusionists.

This book covers all aspects of modern cardiac surgery, and is a valuable resource for residents and fellows in cardiology, cardiovascular surgery, anesthesiology, critical care medicine, and cardiothoracic transplant.

Established as the standard reference on cardiology bypass, Dr. Gravlee's text is in its Third Edition. This edition features a new section on cardiopulmonary bypass in neonates, infants, and children and a new chapter on circuitry support for minimally invasive cardiac surgery. Other highlights include state-of-the-art information on low-volume circuits and other new equipment and discussions of outcomes data for on-pump and off-pump surgeries.

A definitive, comprehensive text on the technological developments and clinical applications of this critical subject matter. Written for the entire heart team, this volume covers the physiology of cardiopulmonary bypass, including the latest developments, and the clinical application of cardiopulmonary bypass in cardiac surgery, non-cardiac applications of cardiopulmonary bypass, and mechanical assistance of the failing heart and lung. The authors also give special consideration to such areas as blood conservation in cardiac surgery, revascularization techniques, mechanical aspects and cardiopulmonary bypass, as well as warm blood cardioplegia and normothermic cardiopulmonary bypass.

Offering a unique, multidisciplinary approach to the complexities of CPB, the 4th Edition of Cardiopulmonary Bypass and Circulatory Support provides the most comprehensive and up-to-date information on management of pediatric patients, CPB-related applications of minimally invasive and robotic cardiac surgery, mechanical circulatory support, minimally invasive and off-pump surgical techniques, and much more. A newly expanded title reflects the rapidly evolving nature of extracorporeal technology, encompassing both short-term and long-term forms of cardiac and pulmonary support.

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