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| Nota di contenuto | Myocardial Protection; Contents; List of Contributors; Foreword; Preface; 1 The history of myocardial protection; 2 The duality of cardiac surgery: mechanical and metabolic objective; 3 Modification of ischemia-reperfusion-induced injury by cardioprotective interventions; 4 Anesthetic preconditioning: a new horizon in myocardial protection; 5 Myocardial protection during acute myocardial infarction and angioplasty; 6 Intermittent aortic cross-clamping for myocardial protection; 7 Intermittent warm blood cardioplegia: the biochemical background; 8 Warm heart surgery 9 Intermittent antegrade warm blood cardioplegia 10 Antegrade, retrograde, or both?; 11 Miniplegia: biological basis, surgical |

techniques, and clinical results; 12 Substrate enhancement in cardioplegia; 13 Is there a place for on-pump, beating heart coronary artery bypass grafting surgery? The pros and cons; 14 Myocardial protection in beating heart coronary artery surgery; 15 Beating heart coronary artery bypass grafting: intraoperative strategies to avoid myocardial ischemia

16 Beating heart coronary artery bypass in patients with acute myocardial infarction: a new strategy to protect the myocardium; 17 Beating heart coronary artery bypass with continuous perfusion through the coronary sinus; 18 On-pump beating heart surgery for dilated cardiomyopathy and myocardial protection; 19 Myocardial protection with beta-blockers in valvular surgery; 20 Myocardial protection in minimally invasive valvular surgery; 21 Intermittent warm blood cardioplegia in aortic valve surgery: an update; 22 Myocardial protection in surgery of the aortic root

23 Myocardial protection in major aortic surgery; 24 Recent advances in myocardial protection for coronary reoperations; 25 Myocardial protection during minimally invasive cardiac surgery; 26 Current concepts in pediatric myocardial protection; 27 Myocardial preconditioning in the experimental model: a new strategy to improve myocardial protection; 28 New concepts in myocardial protection in pediatric; 29 Extracardiac Fontan: the importance of avoiding cardioplegic arrest; 30 Preservative cardioplegic solutions in cardiac transplantation: recent advances

31 Myocardial preservation in clinical cardiac transplantation: an update; 32 Myocardial protection during left ventricular assist device implantation; 33 Gene therapy for myocardial protection; 34 Aortic and mitral valve surgery on the beating heart; Index

Sommario/riassunto

Myocardial protection is regarded as one of the most important, yet also most controversial aspects of cardiac surgery. There has been considerable improvement in myocardial protection strategies over recent years, utilising a variety of new approaches to treat cardiac diseases, and this text is intended to embrace the state of the art in this field. The book summarises the state of knowledge on all aspects of myocardial protection, including the latest in the treatment of cardiac diseases, robotics, pediatric surgery and the treatment of cardiac failure. Robotic surgery, valvular surgery, p
