

1. Record Nr.	UNINA9910300163003321
Titolo	Technological Advances in Surgery, Trauma and Critical Care // edited by Rifat Latifi, Peter Rhee, Rainer W.G. Gruessner
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2015
ISBN	1-4939-2671-3
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (653 p.)
Disciplina	610
Soggetti	Surgery Vascular surgery Surgical transplantation Critical care medicine Urology General Surgery Vascular Surgery Transplant Surgery Intensive / Critical Care Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Ther New Surgeon: Patient-Centered, Disease-Focused, Technology-Driven, and Team-Oriented -- The Ever-Changing Departments of Surgery: The New Paradigm-The Roadmap to a Modern Department of Surgery -- Genomics in Surgery, Trauma, and Critical Care: How Do We Control the Future? -- Nanotechnologies in Surgery: The New Paradigm -- Telemedicine for Trauma and Intensive Care: Changing the Paradigm of Telepresence -- Augmented Reality in Surgery -- The Lean Innovation Model for Academic Medical Discovery -- Changing the Protocol: Is There Still Room for the Professor's Viewpoint? -- Ethical Implications of Advanced Technologies in Surgical Care. Dedicated Resuscitation Operating Room for Trauma -- End Points Resuscitation -- Abdominal Trauma: Not Everything that Bleeds Needs and Operation -- Neurosurgical Advances in Trauma Management -- Damage Control and Organ Injury Priority Management of Trauma

Patients -- Multiorgan Dysfunction in Trauma and Surgical Intensive Care Units -- Advances in Burn Care -- Biology of Nutrition Support and Gut Access in Critically Ill Patients -- Advances in Head and Neck Surgery -- Neck Cancer: Imaging Techniques and Progress on the Operative Approach -- Advances in Thyroid and Parathyroid Care -- Neuron Based Surgery: Are We There Yet? Technical Developments in the Surgical Treatment of Brain Injury and Disease -- Brain Cancer: The New Frontiers -- Advanced Thoracoscopic Surgery to Modern Pulmonary Disease: The Japanese Approach -- The Role of Robotics in Selective Thoracic Surgical Problems: Technical Considerations -- Cardiac Surgery Advances: Do We Still Remember How to Do Open Bypass? -- Artificial Hearts and Cardiac Assist Devices: The Spectrum of the New Era -- New Valves: Where Do We Stand? -- Technological Advances in Endovascular Surgery -- Carotid Disease: The Stents and the Evidence-Based Medicine-What Happened to the Old Surgery? -- Laparoscopic Approaches in General Surgery: Is There Anything New? -- Robotic Applications in Advancing General Surgery -- Natural Orifice Transluminal Endoscopic Surgery (NOTES) -- Bariatric Surgery: The Less, The Better -- New Minimally Invasive Treatments for Acid Reflux -- Minimally Invasive Hepato-Pancreato-Biliary Surgery and Associated GI Interventions -- Pancreatic Advances -- Laparoscopic Liver Resection for Hepatocellular Carcinoma -- Advances in Colorectal Surgery -- Technological Advances in Heart and Lung Transplantation: Concomitant Cardiac Valve Surgery -- Abdominal Organ Transplantation: An Overview -- Small Bowel Transplantation: Is There a Hope on the Horizon? -- Islet Cell Transplantation: New Techniques for an Old Disease -- Face Transplant: The Future is Better Than Current Concepts -- Limb Transplantation -- Advances in Immunosuppressive Therapy -- Tissue Repair and Wound Healing: A Trip Back to the Future -- Surgical Advances in the Treatment of Abdominal Wall Hernias -- Use of Biologic Grafts in Surgery -- Artificial Limbs for Upper Extremity Amputation -- Advanced Technologies in Pediatric Critical Care/Surgery and Fetal Surgery.

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### Sommario/riassunto

This text is designed to provide a comprehensive and state-of-the-art overview of the major technological advances in the field of surgery, trauma and critical care and many aspects of surgical science and practice, is unparalleled to any other current textbook. The book has been structured to review the overall scope of most current technological advances dealing with surgery, trauma, and critical care. As such, this volume represents the most comprehensive textbook covering a wide range of topics and technological advances including genomics and nanotechnologies that affect patients' care and surgeons' practice daily. Additionally, it highlights the dramatic changes in the field of neurosurgery, ENT, cardiothoracic, vascular surgery, minimally invasive surgery, robotic assisted surgery, tissue engineering, transplant, artificial limbs, pediatric surgery and telemedicine and telepresence. Technological Advances in Surgery, Trauma and Critical Care will serve as a valuable resource for clinicians, surgeons and researchers with an interest in trauma, critical care, and all the specialties of surgery. It provides a concise yet comprehensive summary of the current status of the field that will help guide patient management and stimulate investigative efforts.

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