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Descrizione fisica	1 online resource (xiii, 576 pages) : illustrations (chiefly color)
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Soggetti	Gastrointestinal system - Surgery Biomedical engineering
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Surgery and biomedical engineering -- Anatomy, physiology, and selected pathologies of the gastrointestinal tract -- Principles of gastrointestinal surgery -- Preconditions of successful (gastrointestinal) surgery -- Diagnostic procedures -- Classical (open) surgery -- Operative (surgical) laparoscopy -- Interventional flexible endoscopy -- Combined laparoscopic-endoscopic procedures and natural orifice transluminal endoscopic surgery (NOTES) -- Mechatronic support systems and robots -- Tracking and navigation systems -- Health informatics/health information technology -- Training and simulation -- Visceral surgery of the future.
Sommario/riassunto	This book is a combination of engineering and surgical experience on the role of engineering in gastrointestinal surgery. There is currently no other book that combines engineering and clinical issues in this field, while engineering is becoming more and more important in surgery.