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Nota di contenuto	Front Cover; Contents; About the Book; Preface to the Second Edition; Editor; Contributors; Chapter 1 - Introduction to Medical Plastics; Chapter 2 - Getting Stuck in a Good Way: Basics of Medical Device Adhesives; Chapter 3 - Introduction to Needles and Cannulae; Chapter 4 - Assessing Biocompatibility: A Guide for Medical Device Manufacturers; Chapter 5 - Catheter-Forming Equipment and Operations; Chapter 6 - Basics of Catheter Assembly; Chapter 7 - Rapid Prototyping for Medical Devices; Chapter 8 - Medical Applications of Rapid Technologies: Technology Update Chapter 9 - Reverse Engineering in Medical Device DesignChapter 10 - Prototype or Produce? How to Decide; Chapter 11 - Elements of Injection Molding Style for Medical Device R&D; Chapter 12 - Clinical Observation: How to Be Welcome (or at Least Tolerated) in the Operating Room and Laboratory; Chapter 13 - ABCs of NDAs; Chapter 14 - Intellectual Property Strategy for Med-Tech Start-Ups; Chapter 15 - Regulatory Affairs: Medical Devices; Chapter 16 - 510(k) Reform: The Stakes Are High; Chapter 17 - Brief Introduction to Preclinical Research Chapter 18 - Using Medical Illustration in Medical Device R&DChapter 19 - Case Study: The BACETM Mitral Regurgitation Treatment Device: Supplement to Chapter 18, Using Medical Illustration in Medical Device

R&D; Chapter 20 - Interview with Thomas Fogarty, MD; Chapter 21 - Interview with Paul Yock, MD; Chapter 22 - Interview with Dane Miller, PhD; Chapter 23 - Interview with Ingemar Lundquist; Chapter 24 - Interview with J. Casey McGlynn; Chapter 25 - Keys to Creating Value for Early Stage Medical Device Companies; Chapter 26 - Female Leadership in the Medical Device Industry
Chapter 27 - Medical Device Sales 101Chapter 28 - Invention, Innovation, and Creativity: Or How Thomas Edison Never Changed the World by Creating the Light Bulb; Chapter 29 - How to Fail as an Entrepreneur; Chapter 30 - Raising Money for Your Medical Device Start-Up; Back Cover

Sommario/riassunto

Written for medical device designers, biomedical engineering students, physician entrepreneurs, and medical device entrepreneurs, this reference explains the basics on how to prototype and develop a medical device. It discusses the basics of plastics, adhesives, medical needles, and rapid prototyping as well as tips and tools to save time and money. This updated and expanded second edition includes practical advice and interviews from key opinion leaders and pioneers in the field. Extensive references at the end of each chapter enhance additional study--Provided by publisher.