



The book was found

# The Medical Device R&D Handbook



## Synopsis

The Medical Device R&D Handbook presents a wealth of information for the hands-on design and building of medical devices. Detailed information on such diverse topics as catheter building, prototyping, materials, processes, regulatory issues, and much more are available in this convenient handbook for the first time. The Medical Device R&D Handbook also includes exclusive interviews with pioneers and leaders in the medical device industry, offering an insider's perspective on issues that are critical to the medical device entrepreneur. Highlights Include

- An Introduction to Medical Plastics
- Catheter Forming Equipment and Operations
- Basics of Catheter Construction
- Basics of Medical Needles
- Rapid Prototyping for Medical Devices
- Reverse Engineering for Medical Devices
- Using Medical Illustration in Product Development
- Introduction to Pre-Clinical Studies
- Introduction to Regulatory Affairs
- Assessing Biocompatibility
- Exclusive Interviews with Key Industry Leaders
- And More

This practical handbook is a unique, insightful guide that helps you design, test, and successfully introduce new medical devices to the marketplace.

## Book Information

Hardcover: 376 pages

Publisher: CRC Press; 1 edition (November 21, 2005)

Language: English

ISBN-10: 0849327172

ISBN-13: 978-0849327179

Product Dimensions: 9.5 x 6.4 x 1 inches

Shipping Weight: 1.5 pounds

Average Customer Review: 4.1 out of 5 stars 6 customer reviews

Best Sellers Rank: #2,172,214 in Books (See Top 100 in Books) #64 in [Books > Textbooks > Medicine & Health Sciences > Reference > Instruments & Supplies](#) #91 in [Books > Medical Books > Medicine > Prosthesis](#) #97 in [Books > Medical Books > Medicine > Reference > Instruments & Supplies](#)

## Customer Reviews

This is the first in its class of multidisciplinary books for medical device innovators, reaching across several disciplines to capture what innovators need-Michael Gertner, MD, Co-Director, Surgical Innovation Program at Stanford University, and noted physician-entrepreneur The Keiretsu Forum is America's largest angel investment group. We see hundreds of presentations for innovative start up companies. This is a resource that will help medical device innovators develop better products, and

more focused companies, more quickly-Randy Williams, Founder The Keiretsu Forum  
Finally, a real manual that for the first time supports efficient medical device development-Peter H. Muller, President, Interform Product Development

-----Reviews----- "This is the first in its class of multidisciplinary books for medical device innovators, reaching across several disciplines to capture what innovators need"  
-Michael Gertner, MD, Co-Director, Surgical Innovation Program at Stanford University, and noted physician-entrepreneur "The Keiretsu Forum is America's largest angel investment group. We see hundreds of presentations for innovative start up companies. This is a resource that will help medical device innovators develop better products, and more focused companies, more quickly"  
-Randy Williams, Founder The Keiretsu Forum "Finally, a real manual that for the first time supports efficient medical device development" -Peter H. Muller, President, Interform Product Development

When I bought this book, I expected it to be used as a reference for catheter laminations and catheter material selection. Although, the book does describe one example of a laminated catheter product, its methods are so primitive that I wouldn't be surprised if the technology is outdated by 10 years. There is no mentioning of braid/coil reinforcement or any concerns with catheter kink-resistance, torquability, and flow-rates. I was sort of hoping that they would at least cover the difference between a flat-wire braid and a round-wire braid in terms of kink-resistance and torque. Overall, this book is recommended for those who're just starting in the in the medical device industry. The technologies introduced here are very basic, but you should never expect these methods to be used to create a product that's competitive in today's marketplace. I guess, a lot of the key technologies are kept as trade-secrets as those "in the know."

This book is a fantastic resource for anyone working in R&D at a device start-up, particularly those who are beginning their careers. I wish I had it when my company began prototyping. The text contains a wealth of knowledge that would take years to assimilate on the job and it is well illustrated (although when provided, photos are black and white only) to elucidate concepts that are difficult to explain with words alone. One of the most useful aspects of the book is the practical examples for how to construct prototype and proof of concept devices. The author provides example fabrication and assembly options that consider development stage (proof of concept/demonstrator, prototype, small production run) which are quite helpful for companies exploring areas beyond their traditional niche. You can be assured that this book will pay for itself

many times over.

This book is way more than I had expected. It was required for a class but once I started reading it amazed me. Very strait forward and down to earth

Oh boy!! When this book arrived I couldn't put it down!! The very thought of the awesomeness the next page would most definitely hold kept me turning those pages all day and night!! I suggest buying 2 copies because once your friends and colleagues see you reading this they will probably steal it from you and read it themselves!!

Since I work in academic reseach, I purchased this book to have basic understanding of medical device industry R&D. And I am pleased to say that the book is a concise guide to the complexity of research development and quality affairs.

Well written and presented. It is a huge asset to any medical designer, or someone in the medical field.

[Download to continue reading...](#)

How to Add a Device to Account: How to add a device to my account - 3 easy steps in few minutes  
Medical Terminology: Medical Terminology Easy Guide for Beginners (Medical Terminology, Anatomy and Physiology, Nursing School, Medical Books, Medical School, Physiology, Physiology)  
Medical Terminology: Medical Terminology Made Easy: Breakdown the Language of Medicine and Quickly Build Your Medical Vocabulary (Medical Terminology, Nursing School, Medical Books)  
Medical Device Register 1996: The Official Directory of Medical Suppliers (2 Vol Set) The Medical Device Engineers Handbook Handbook of Human Factors in Medical Device Design The Medical Device R&D Handbook, Second Edition The Medical Device R&D Handbook The Patient's Medical Journal: Record Your Personal Medical History, Your Family Medical History, Your Medical Visits & Treatment Plans American Medical Association Complete Medical Encyclopedia (American Medical Association (Ama) Complete Medical Encyclopedia) Medical Device Technologies: A Systems Based Overview Using Engineering Standards (Academic Press Series in Biomedical Engineering) IEC 62304 Ed. 1.0 b:2006, Medical device software - Software life cycle processes Design Controls for the Medical Device Industry Validation for Medical Device and Diagnostic Manufacturers, Second Edition Medical Device Software Verification, Validation and Compliance ISO 13485: A Complete Guide to Quality Management in the Medical Device Industry Medical Device Design:

Innovation from Concept to Market Design, Execution, and Management of Medical Device Clinical Trials Medical Device Design for Six Sigma: A Road Map for Safety and Effectiveness Mastering and Managing the FDA Maze: Medical Device Overview: A Training and Management Desk Reference for Manufacturers Regulated by the Food and Drug Administration

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)