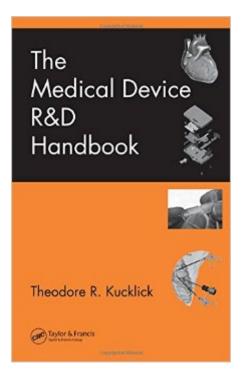
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The Medical Device R&D Handbook





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 Includeâ |An Introduction to Medical PlasticsCatheter Forming Equipment and OperationsBasics of Catheter ConstructionBasics of Medical NeedlesRapid Prototyping for Medical DevicesReverse Engineering for Medical DevicesUsing Medical Illustration in Product DevelopmentIntroduction to Pre-Clinical StudiesIntroduction to Regulatory AffairsAssessing BiocompatibilityExclusive Interviews with Key Industry Leadersâ |And MoreThis 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: 4.3 out of 5 stars Â See all reviews (6 customer reviews) Best Sellers Rank: #1,806,741 in Books (See Top 100 in Books) #56 in Books > Textbooks > Medicine & Health Sciences > Reference > Instruments & Supplies #65 in Books > Medical Books > Medicine > Prosthesis #86 in Books > Medical Books > Medicine > Reference > Instruments & Supplies

Customer Reviews

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.

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, torquabilty, 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."

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 collegues see you reading this they will probably steal it from you and read it themselves!!

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.

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

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

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