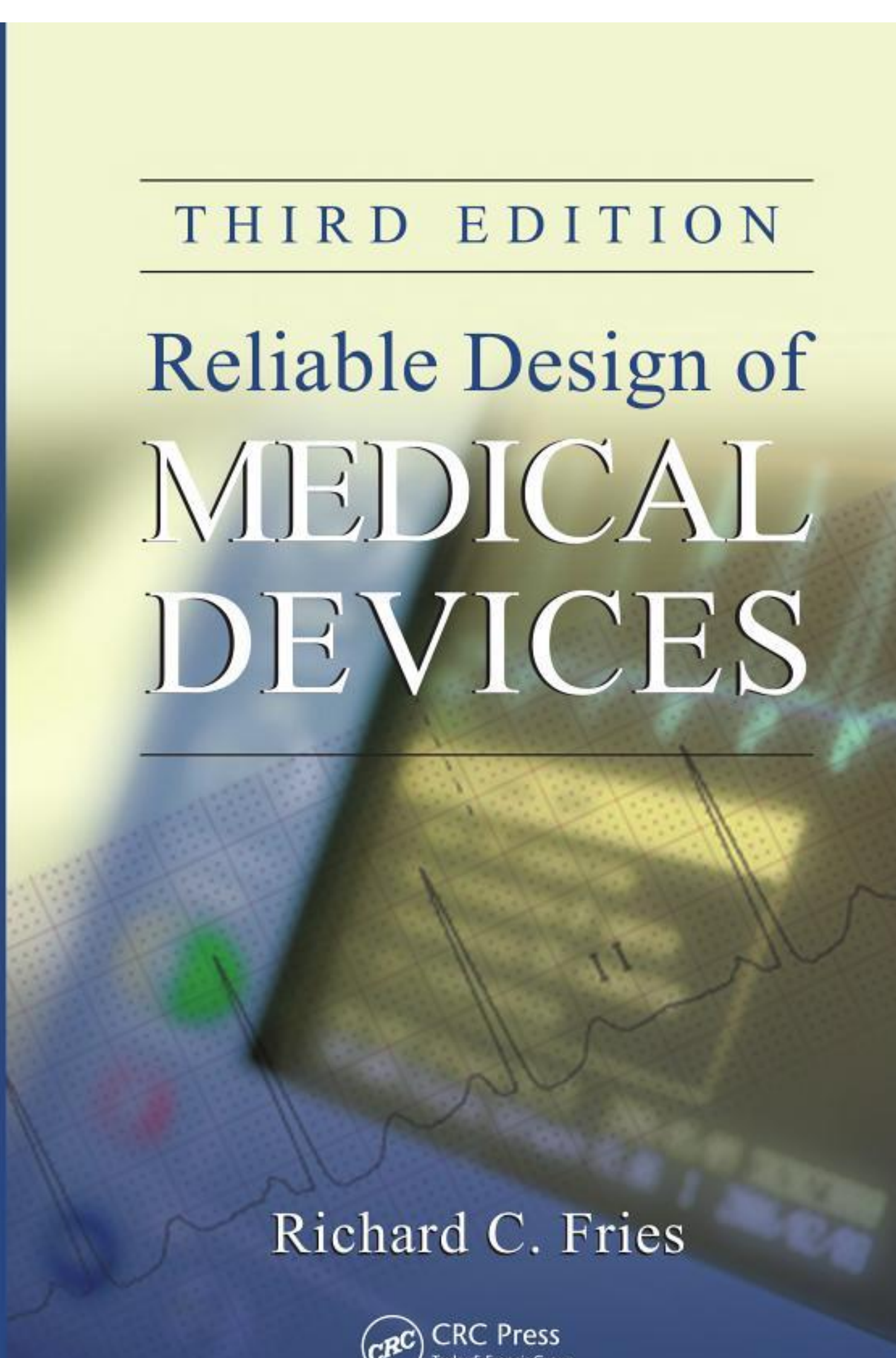
THIRD EDITION

Reliable Design of MEDICAL DEVICES



Richard C. Fries

CRC Press

Reliable Design of Medical Devices, Third Edition, Richard C. Fries, CRC Press, 2012, 1439894914, 9781439894910, 501 pages. As medical devices become even more intricate, concerns about efficacy, safety, and reliability continue to be raised. Users and patients both want the device to operate as specified, perform in a safe manner, and continue to perform over a long period of time without failure. Following in the footsteps of the bestselling second edition, Reliable Design of Medical Devices, Third Edition shows you how to improve reliability in the design of advanced medical devices. Reliability engineering is an integral part of the product development process and of problem-solving activities related to manufacturing and field failures. Mirroring the typical product development process, the book is organized into seven parts. After an introduction to the basics of reliability engineering and failures, it takes you through the concept, feasibility, design, verification and validation, design transfer and manufacturing, and field activity phases. Topics covered include Six Sigma for design, human factors, safety and risk analysis, and new techniques such as accelerated life testing (ALT) and highly accelerated life testing (HALT). WhatÐ²Ð‚â„¢s New in This Edition Updates throughout, reflecting changes in the field An updated software development process Updated hardware test procedures A new layout that follows the product development process A list of deliverables needed at the end of each development phase Incorporating reliability engineering as a fundamental design philosophy, this book shares valuable insight from the authorÐ²Ð‚â„¢s more than 35 years of experience. A practical guide, it helps you develop a more effective reliability engineering programÐ²Ð‚â€•contributing to increased profitability, more satisfied customers, and less risk of liability..

Software Testing in the Real World , Kit Edward, , , . .

Six Sigma for Medical Device Design , Jose Justiniano, Venky Gopalaswamy, Nov 15, 2004, Technology & Engineering, 152 pages. For designers of medical devices, the FDA and ISO requirements are extremely stringent. Designers and researchers feel pressure from management to quickly develop new devices ....

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Designing Usability into Medical Products , Michael E. Wiklund, Stephen B. Wilcox, Feb 11, 2005, Medical, 376 pages. Advocating a user-centered approach to medical technology design, Designing Usability into Medical Products covers the essential processes and specific techniques necessary to ....

Software Development and Quality Assurance for the Healthcare Manufacturing Industries, Third Edition , Steven R. Mallory, 2002, Medical, 514 pages. Completely revised and updated, this book is a practical guide for anyone involved in all levels of the development and quality assurance of software programs for healthcare ....

Validation for Medical Device and Diagnostic Manufacturers , Carol V. Desain, Charmaine Vercimak Sutton, Sep 1, 1997, Medical, 332 pages. Implementation of FDA's Design Control requirements (21 CFR 820.30) changed an entire industry. Quality System Requirements defined the approach to medical device validation ....

Medical Devices and Systems , Joseph D. Bronzino, Apr 19, 2006, Medical, 1376 pages. Over the last century, medicine has come out of the "black bag" and emerged as one of the most dynamic and advanced fields of development in science and technology. Today ....

Project Management of Complex and Embedded Systems Ensuring Product Integrity and Program Quality, Kim H. Pries, Jon M. Quigley, Oct 22, 2008, Business & Economics, 376 pages. There are many books on project management and many on embedded systems, but few address the project management of embedded products from concept to production. Project ....

Applied Biomedical Engineering Mechanics , Dhanjoo Ghista, Jul 11, 2008, Medical, 552 pages. Combining topics from numerous applications in biomechanics, Applied Biomedical Engineering Mechanics demonstrates how to analyze physiological processes from an engineering ....

Medical Device Development Regulation and Law, Jonathan S. Kahan, Aug 26, 2009, , 546 pages. .

Software Engineering: The supporting process , Richard H. Thayer, Merlin Dorfman, Aug 19, 2005, Computers, 456 pages. Software Engineering Volume 2: The Supporting Processes Third Edition Richard H. Thayer and Merlin Dorfman Foreword by Leonard L. Tripp, 1999 President of the IEEE Computer ....

Compact Regs Parts 820: CFR 21 Part 820 Quality System Regulation ..., Part 820 CFR 21 Part 820 Quality System Regulation (10 Pack), , Dec 8, 2003, Technology & Engineering, 64 pages. This book presents Current Good Manufacturing Practice (CGMP) requirements as set forth by the FDA. Supplemented with a handy keyword index, it provides, in a pocket-sized ....

Safety Evaluation of Medical Devices , Shayne C. Gad, Oct 20, 2008, Medical, 504 pages. Capturing the growth of the global medical device market in recent years, this practical new guide is essential for all who are responsible for ensuring safety in the use and ....

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