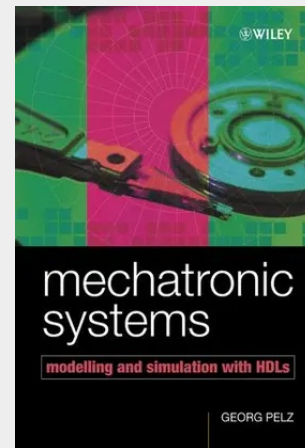


Mechatronic Systems: Modelling and Simulation with Hdls

* Covers the modelling and simulation of mechatronic and micromechatronic systems using HDLs. * Provides an overview of the design of digital and analog circuitry and software for mechatronic systems. * Presents practical guidance on both chip and systems design for a wide range of mechatronic applications. * Focuses on a practical approach to the design and simulation of electronic hardware and components of mechatronic systems.

Developed through the interaction of mechanical, electrical and information technologies, mechatronic systems allow engineers to meet increasing demands for complex and sophisticated products. Using tools common to electronics, this book provides a timely introduction to the modelling and simulation of these systems from an electrical/electronic engineering perspective. Focusing on electronic hardware design, Mechatronic Systems highlights the interaction of electronic components with system mechanics and software and: * describes state-of-the-art techniques for the simulation of mechatronics and micromechatronics * outlines the principles of modelling and simulation for electronics and mechanics with particular attention to the verification and validation of models * covers the most important constructs of digital and analogue hardware description languages * discusses comprehensively methods for the consideration of software and mechanics in hardware description languages Offering a general view on system design for (micro)mechatronic systems, this book will appeal to practising electrical and electronics engineers developing these products in, for instance, the automotive, robotic or data storage industries. Mechanical engineers, computer scientists, graduate electrical engineering students and researchers will also find this book a valuable reference.



211,50 €

197,66 € (zzgl. MwSt.)

Nicht mehr lieferbar

Artikelnummer: 9780470849798

Medium: Buch

ISBN: 978-0-470-84979-8

Verlag: WILEY

Erscheinungstermin: 30.06.2003

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2003

Produktform: Gebunden

Gewicht: 603 g

Seiten: 236

Format (B x H): 168 x 256 mm

