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Nota di contenuto	Implantable Bioelectronics; Contents; Preface; List of Contributors; Chapter 1 Implantable Bioelectronics - Editorial Introduction; References; Chapter 2 Magnetically Functionalized Cells: Fabrication, Characterization, and Biomedical Applications; 2.1 Introduction; 2.2 Magnetic Microbial Cells; 2.2.1 Direct Deposition of MNPs onto Microbial Cells; 2.2.2 Polymer-Mediated Deposition of MNPs onto Microbial Cells; 2.2.2.1 Layer-by-Layer Magnetic Functionalization of Microbial Cells; 2.2.2.2 Single-step Polymer-mediated Magnetic Functionalization of Microbial Cells 2.2.3 Applications of Magnetically Modified Microbial Cells2.2.3.1 Biosorbents and Biocatalysts; 2.2.3.2 Whole-Cell Biosensors and Microfluidic Devices; 2.2.3.3 Remotely Controlled Organisms; 2.3 Magnetic Labeling of Mammal (Human) Cells; 2.3.1 Intracellular Labeling of Cells; 2.3.1.1 Labeling with Anionic Magnetic Nanoparticles; 2.3.1.2 Labeling with Cationic Magnetic Nanoparticles; 2.3.2 Extracellular Labeling of Cells; 2.3.3 Applications of Magnetically Labeled Cells in Biomedicine; 2.3.3.1 MRI Imaging of MNPs-Labeled Cells; 2.3.3.2 MNPs-Mediated Cell Delivery and Tissue Engineering 2.4 ConclusionAcknowledgment; References; Chapter 3 Untethered Insect Interfaces; 3.1 Introduction; 3.2 Systems for Tetherless Insect

Flight Control; 3.2.1 Various Approaches to Tetherless Flight Control; 3.2.2 Neurostimulation for Initiation of Wing Oscillations; 3.2.3 Extracellular Stimulation of the Muscles to Elicit Turns; 3.3 Implantable Bioelectronics in Insects; 3.3.1 Example: Insertion of Flexible Substrates into the Developing Eye; 3.4 Conclusions; References; Chapter 4 Miniaturized Biomedical Implantable Devices; 4.1 Introduction
4.2 Energy Harvesting as a Pathway to Miniaturization4.3 Implementation of Implantable Devices; 4.3.1 RF Power Harvesting; 4.3.1.1 Matching Network; 4.3.1.2 Rectifier; 4.3.1.3 Regulator and Bandgap Reference; 4.3.1.4 Low-Power Controller and Auxiliary Circuits in the Implant Functional Block; 4.3.2 Wireless Communication Link; 4.3.2.1 Forward Data Link; 4.3.2.2 Reverse Data Link; 4.3.3 Payload and Applications: Locomotive Implant and Implantable Cardiac Probe; 4.3.3.1 Actuation for Therapeutics: Millimeter-Sized Wirelessly Powered and Remotely Controlled Locomotive Implant
4.3.3.2 Low-Power Sensing for Diagnostics: Implantable Intracardiac Probe4.4 Conclusion; References; Chapter 5 Cross-Hierarchy Design Exploration for Implantable Electronics; 5.1 Introduction; 5.2 System Overview of a Generic Bioelectronic Implant; 5.3 Circuit Design for Low-Power Signal Processing; 5.3.1 Design Challenges for Low-Power Bioelectronic Sensor Interface; 5.3.2 Analog Signal Processing Using Subthreshold Circuits; 5.3.3 Analog-to-Digital Conversion; 5.3.4 Low-Power Digital Signal Processing; 5.3.4.1 VDD Scaling and Parallel Processing
5.3.4.2 Dynamic Voltage and Frequency Scaling

Sommario/riassunto

Here the renowned editor Evgeny Katz has chosen contributions that cover a wide range of examples and issues in implantable bioelectronics, resulting in an excellent overview of the topic. The various implants covered include biosensoric and prosthetic devices, as well as neural and brain implants, while ethical issues, suitable materials, biocompatibility, and energy-harvesting devices are also discussed.A must-have for both newcomers and established researchers in this interdisciplinary field that connects scientists from chemistry, material science, biology, medicine, and electrical eng

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Chapter 8: Introducing Cascading Style Sheets; Advantages of Style Sheets; CSS Structure and Syntax; Using Different Kinds of Style Sheets; Understanding the Cascade; Chapter 9: Using Cascading Style Sheets; Managing Layout, Positioning, and Appearance; Multimedia; Chapter 10: Getting Creative with Colors and Fonts; Color Values; Color Definitions; Fonts
Chapter 11: Using Tables to Jazz Up Your Pages What Tables Can Do for You; Table Basics; Sketching Your Table; Constructing Basic Tables; Adding Spans; Populating Table Cells; Testing Your Table; Table-Making Tips; Other Table Markup of Interest; Part IV: Integrating Scripts with (X) HTML; Chapter 12: Scripting Web Pages; What JavaScript Can Do for Your Pages; Chapter 13: The Nuts and Bolts of JavaScript; Including Scripts in Web Pages; Using the Same Script on Multiple Pages; Exploring the JavaScript Language; Events and Event Handling; Document Object Model (DOM)
Other JavaScript Items of Interest References and Resources; Chapter 14: Working with Forms; Uses for Forms; Creating Forms; Processing Data; Designing User-Friendly Forms; Other Noteworthy Forms-Related Markup; Chapter 15: Fun with Client-Side Scripts; Adding Rollovers to Your Pages; Displaying Dynamic Content on Your Page; Displaying Pop-up Windows; Working with Cookies; Using the XHTML Object Element; Part V: (X) HTML Projects; Chapter 16: The About Me Page; Overview and Design Considerations; Page Markup; Chapter 17: The eBay Auction Page; Designing Your Auction Page
Presentation Issues to Consider

Sommario/riassunto

Now featuring more than 250 color illustrations throughout, this perennially popular guide is a must for novices who want to work with HTML or XHTML, which continue to be the foundation for any Web site The new edition features nearly 50 percent new and updated content, including expanded coverage of CSS and scripting, new coverage of syndication and podcasting, and new sample HTML projects, including a personal Web page, an eBay auction page, a company Web site, and an online product catalog The companion Web site features an eight-page expanded Cheat Sheet with ready-reference