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# Implantable Electronic Medical Devices

*Dennis Fitzpatrick*
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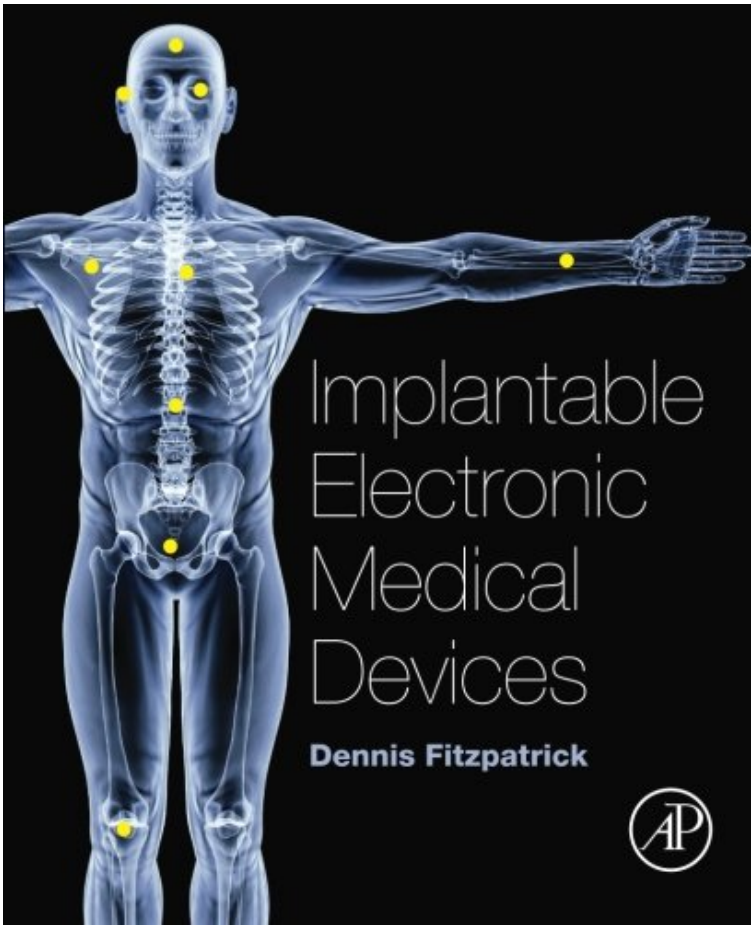


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Implantable Electronic Medical Devices provides a thorough review of the application of implantable devices, illustrating the techniques currently being used together with overviews of the latest commercially available medical devices. This book provides an overview of the design of medical devices and is a reference on existing medical devices. The book groups devices with similar functionality into distinct chapters, looking at the latest design ideas and techniques in each area, including retinal implants, glucose biosensors, cochlear implants, pacemakers, electrical stimulation therapy devices, and much more. Implantable Electronic Medical Devices equips the reader with essential

background knowledge on the application of existing medical devices as well as providing an introduction to the latest techniques being used.A catalogue of existing implantable electronic medical devicesUp-to-date information on the design of implantable electronic medical devicesBackground information and reviews on the application and design of up-to-date implantable electronic medical devices

About the AuthorDr Fitzpatrick is a Reader in Biomedical Engineering at The University of West London, where he also leads the Biomedical Engineering Research Group. He has a BEng degree in Electronic Engineering, a PhD in Bioengineering and is a Chartered Electronics Engineer and a Fellow of the Higher Education Academy. His primary research interest is in the use of Functional Electrical Simulation (FES) for the restoration of bladder function and restoration of gait in stroke and spinal cord injured patients. His research focuses on the design and development of implantable medical systems. His recent book 'Analogue Design and Simulation using OrCAD Capture and PSpice', also published by Elsevier, has sold worldwide to highly acclaimed reviews in numerous prestigious electronic engineering journals such as EDN and Electronic Times and is officially endorsed by Cadence Design Systems.