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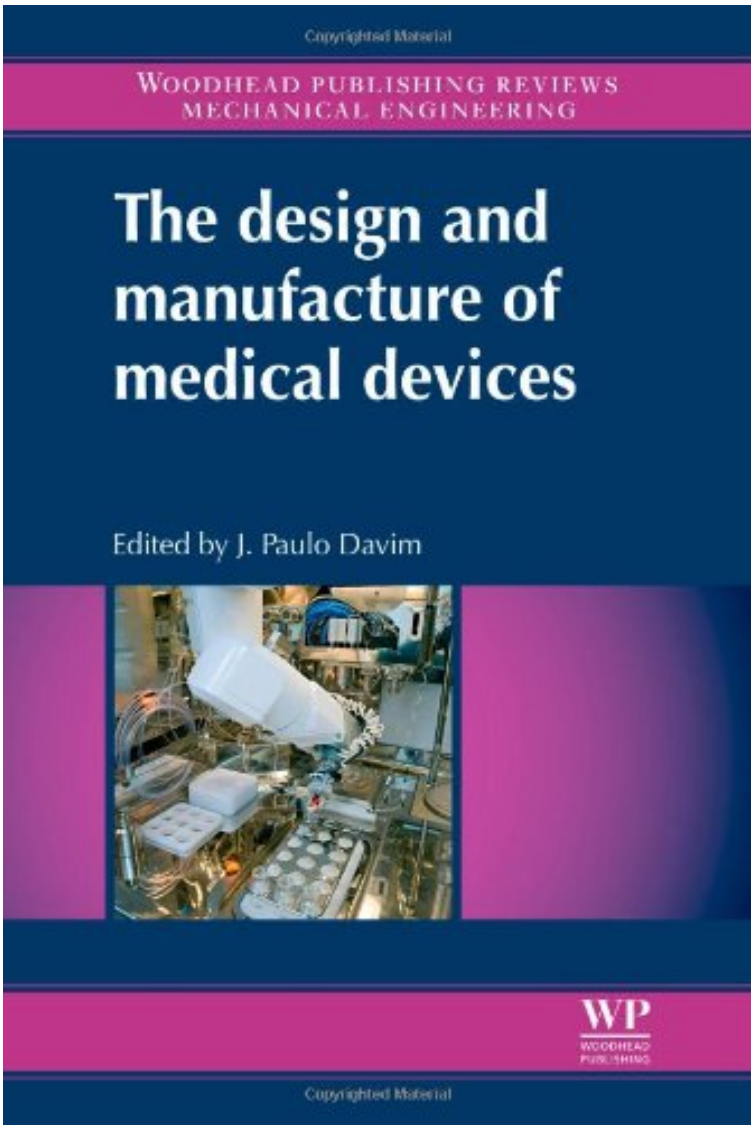

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Medical devices play an important role in the field of medical and health technology, and encompass a wide range of health care products. Directive 2007/47/EC defines a medical device as any instrument, apparatus, appliance, software, material or other article, whether used alone or in combination, including the software intended by its manufacturer to be used specifically for diagnostic and/or therapeutic purposes and necessary for its proper application, intended by the manufacturer to be used for human beings. The design and manufacture of medical devices brings together a range of articles and case studies dealing with medical device RD. Chapters in the book cover materials used in medical implants, such as Titanium Oxide, polyurethane, and advanced polymers; devices for specific applications such as spinal and craniofacial implants, and other issues related to medical devices, such as precision machining and integrated telemedicine systems.Contains articles on a diverse range of subjects within the field, with internationally renowned specialists discussing each medical deviceOffers a practical approach to recent developments in the design and manufacture of medical devicesPresents a topic that is the focus of research in many important universities and centres of research worldwide

About the AuthorJ. Paulo Davim received his PhD in Mechanical Engineering from the University of Porto in 1997, the Aggregate title from the University of Coimbra in 2005 and a DSc from London Metropolitan University in 2013. Currently, he is Professor at the Department of Mechanical Engineering of the University of Aveiro. He has about 30 years of teaching and research experience in Manufacturing, Materials and Mechanical Engineering with special emphasis in Machining Tribology. Recently, he has also interest in Management/Industrial Engineering and Higher Education for Sustainability.