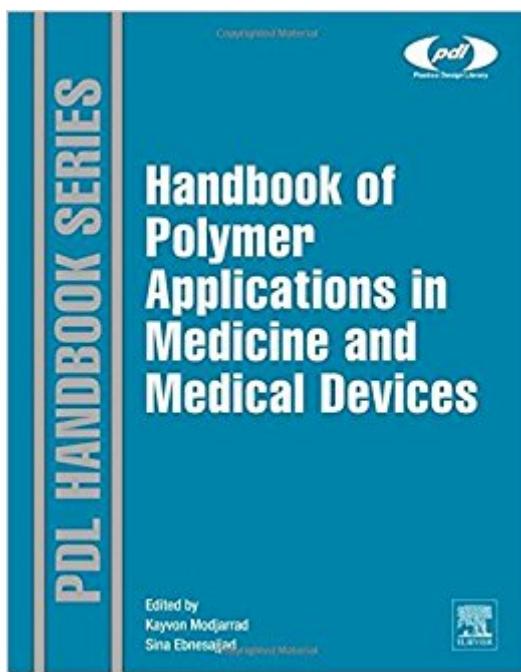


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# Handbook Of Polymer Applications In Medicine And Medical Devices (Plastics Design Library)



## Synopsis

While the prevalence of plastics and elastomers in medical devices is now quite well known, there is less information available covering the use of medical devices and the applications of polymers beyond medical devices, such as in hydrogels, biopolymers and silicones beyond enhancement applications, and few books in which these are combined into a single reference. This book is a comprehensive reference source, bringing together a number of key medical polymer topics in one place for a broad audience of engineers and scientists, especially those currently developing new medical devices or seeking more information about current and future applications. In addition to a broad range of applications, the book also covers clinical outcomes and complications arising from the use of the polymers in the body, giving engineers a vital insight into the real world implications of the devices they're creating. Regulatory issues are also covered in detail. The book also presents the latest developments on the use of polymers in medicine and development of nano-scale devices. Gathers discussions of a large number of applications of polymers in medicine in one place. Provides an insight into both the legal and clinical implications of device design. Relevant to industry, academic and medical professionals. Presents the latest developments in the field, including medical devices on a nano-scale.

## Book Information

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## Customer Reviews

Prof. Modjarrad is Adjunct Assistant Professor of Medicine at the Johns Hopkins University School

of Medicine, Attending on infectious diseases consult service at the main hospital 1 month per year. Responsible for teaching residents and fellows. He was awarded with the following grants: 1. Vanderbilt Infection Pathogenesis and Epidemiology Research Training Program, \$233,075, 2011-2012, 2. Vanderbilt International Office Exchange Grant, \$15,000, 2008-2009.3. EGPAF Research Grant (PG-51368), \$280,000, 2003-2005.4. U.S. Department of Defense, \$15,000, 2003-2004.5. National Institutes of Health, Fogarty International Research Collaborative Award (5R03TW005929-02), \$100,000, 2002-2004. He is the Co-Editor for the medical polymers series, beginning with the Handbook of Polymer Applications in Medicine and Medical Devices, first volume published in December 2013 (Williams Andrews). Sina Ebnesajjad is the series editor of Plastics Design Library (PDL) published in the William Andrew imprint of Elsevier. This Series is a unique series, comprising technology and applications handbooks, data books and practical guides tailored to the needs of practitioners. Sina was the editor-in-chief of William Andrew Publishing from 2005 to 2007, which was acquired by Elsevier in 2009. He retired as a Senior Technology Associate in 2005 from the DuPont fluoropolymers after nearly 24 years of service. Sina founded of FluoroConsultants Group, LLC in 2006 where he continues to work. Sina earned his Bachelor of Science from the School of Engineering of the University of Tehran in 1976, Master of Science and PhD from the University of Michigan, Ann Arbor, all in Chemical Engineering. He is author, editor and co-author of fifteen technical and data books including five handbooks on fluoropolymers technology and applications. He is author and co-author of three books in surface preparation and adhesion of materials, two of which are in their second editions. Sina has been involved with technical writing and publishing since 1974. His experiences include fluoropolymer technologies (polytetrafluoroethylene and its copolymers) including polymerization, finishing, fabrication, product development, failure analysis, market development and technical service. Sina holds six patents.

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