



Mechatronics in Medicine A Biomedical Engineering Approach (Mechanical Engineering)

By Siamak Najarian, Javad Dargahi, Goldis Darbemamieh, Siamak Hajizadeh Farkoush

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Mechatronics in Medicine: A Biomedical Engineering Approach describes novel solutions for utilizing mechatronics to design innovative, accurate, and intelligent medical devices and optimize conventional medical instruments. After an introduction to mechatronics, the book addresses sensing technologies, actuators and feedback sensors, mechanisms and mechanical devices, and processing and control systems. Artificial intelligence, expert systems, and medical imaging are also covered. This pioneering guide concludes by discussing applications of mechatronics in medicine and biomedical engineering and presenting seven real-world medical case studies.

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Editorial ReviewAbout the Author

Siamak Najarian received his Ph.D. in biomedical engineering from Oxford University, England. He serves as Professor and Dean of Faculty of Biomedical Engineering at Amirkabir University of Technology in Tehran. Dr. Najarian's research interests are the applications of artificial tactile sensing (especially in robotic surgery) and design of artificial organs. His McGraw-Hill book, *Artificial Tactile Sensing in Biomedical Engineering*, was a 2009 PROSE Awards finalist in the Engineering and Technology category.

Javad Dargahi, Ph.D., is associate professor in the Department of Mechanical and Industrial Engineering at the University of Concordia in Montreal. He is co-author of *Artificial Tactile Sensing in Biomedical Engineering*. **Goldis Darbemamieh** is a Ph.D. student in the Biomedical Engineering Department at Amirkabir University of Technology, Tehran. Her M.Sc. thesis was selected as the best M.Sc. thesis in all of Iran in the field of Engineering and Technology, and the thesis was accepted to be published as a book.

Siamak Hajizadeh Farkoush is a Ph.D. student in the Biomedical Engineering Department at Amirkabir University of Technology, Tehran. He has registered three European patents in the fields of robotics, mechatronics, and smart surgical instruments, and he was awarded the silver medal in the international competition of invention in Geneva, Switzerland, in 2008. **Users Review****From reader reviews:**

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