

## Mechatronics in Medicine A Biomedical Engineering Approach

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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