

Selected Topics In Micro/nano-robotics For Biomedical Applications

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Micro/Nano-robotics for Biomedical Applications features a system approach and incorporates modern methodologies in autonomous mobile robots for programmable and controllable micro/nano-robots aiming at biomedical applications. The book provides chapters of instructional materials in micro/nanorobotics for biomedical applications. The book features lecture units on micro/nanorobot components and techniques, including sensors, actuator, power supply, and micro/nano-fabrication and assembly. It also contains case studies on using micro/nano-robots in biomedical environments and in biomedicine, as well as a design example to conceptually develop a Vitamin-pill sized robot to enter humans gastrointestinal tract. Laboratory modules to teach robot navigation and cooperation methods suitable to biomedical applications will be also provided based on existing simulation and robot platforms. EAN/ISBN : 9781441984111 Publisher(s): Springer, Berlin, Springer, New York Discussed keywords: Biologische Medizin Format: ePub/PDF Author(s): Guo, Yi

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