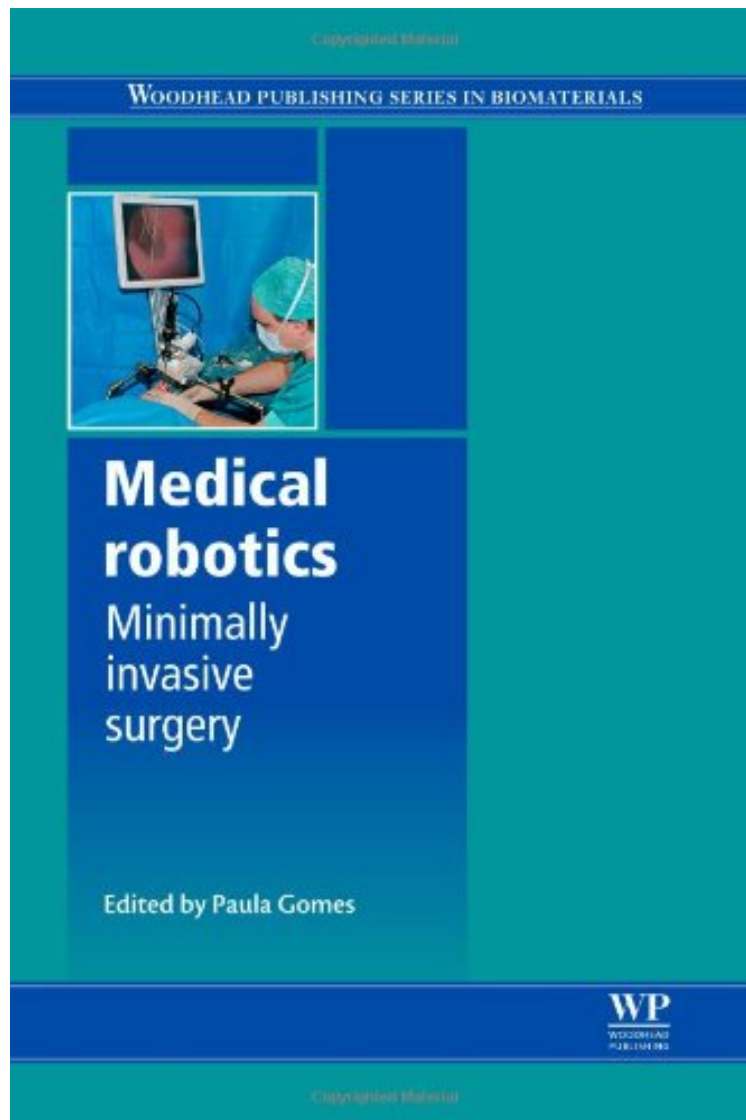


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Advances in research have led to the use of robotics in a range of surgical applications. Medical robotics: Minimally invasive surgery provides authoritative coverage of the core principles, applications and future potential of this enabling technology. Beginning with an introduction to robot-assisted minimally invasive surgery (MIS), the core technologies of the field are discussed, including localization and tracking technologies for medical robotics. Key applications of robotics in laparoscopy, neurology, cardiovascular interventions, urology and orthopaedics are considered, as well as applications for ear, nose and throat (ENT) surgery, vitreoretinal surgery and natural orifice transluminal endoscopic surgery (NOTES). Microscale mobile robots for the circulatory system and mesoscale robots for the gastrointestinal tract are investigated, as is MRI-based navigation for in vivo magnetic microrobots. Finally, the book concludes with a discussion of ethical issues related to the use of robotics in surgery. With its distinguished editor and international team of expert contributors, Medical robotics: Minimally invasive surgery is a comprehensive guide for all those working in the research, design, development and application of medical robotics for surgery. It also provides an authoritative introduction for academics and medical practitioners working in this field. Provides authoritative coverage of the core principles, applications and future potential of medical robotics. Introduces robot-assisted minimally invasive surgery (MIS), including the core technologies of the field and localization and tracking technologies for medical robotics. Considers key applications of robotics in laparoscopy, neurology, cardiovascular interventions, urology and orthopaedics.

...a comprehensive and well-written book on the current application of medical robotics in numerous surgical specialities from a wide variety of international medical centres of excellence., Urology News This is a good resource to deepen one's comprehension of the history of robotic surgery. It also provides an update of the currently available robotic surgery. It also provides an update of the currently available robotic technology and the mechanics and clinical applications., Hui Sen Chong, MD (University of Iowa Hospitals and Clinics), Doody's Book Service About the Author Paula Gomes leads developments of surgical and interventional medical devices at Cambridge Consultants, a world leader in technology and product development. The former RD Director of Acrobot, the company responsible for the world-first surgeon-controlled robotic device for orthopaedic surgery, she has extensive experience with surgical technology, surgical robotics and software-driven electromechanical medical devices.