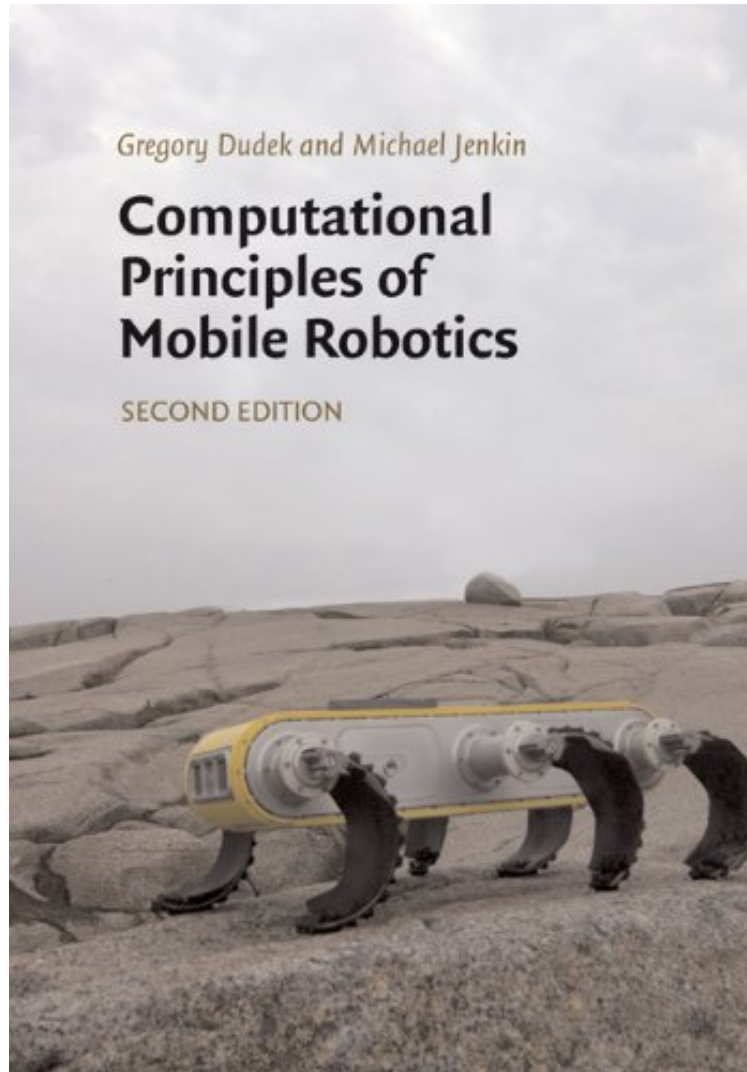


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Computational Principles of Mobile Robotics

Von Gregory Dudek, Michael Jenkin
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KundenrezensionenHilfreichste Kundenrezensionen1 von 1 Kunden fanden die folgende Rezension hilfreich. Great book in RoboticsVon Ioannis RekleitisThis book covers the field of mobile robotics, providing both historical references and cutting edge information. Although I have been in the field of mobile robotics for five years I discovered many overlooked facts through this book.Moreover, I found this book very well written and easy to read. I believe it would make a great introductory text for anybody interested in the technology of the future. This book could

be extremely useful as a text for a university course in robotics.

Kurzbeschreibung This textbook for advanced undergraduates and graduate students emphasizes algorithms for a range of strategies for locomotion, sensing, and reasoning. It concentrates on wheeled and legged mobile robots but discusses a variety of other propulsion systems. The new edition includes advances in robotics and intelligent machines over the last ten years, including significant coverage of SLAM (simultaneous localization and mapping) and multi-robot systems. It includes additional mathematical background and an extensive list of sample problems. Various mathematical techniques that were assumed in the first edition are now briefly introduced in appendices at the end of the text to make the book more self-contained. Researchers as well as students in the field of mobile robotics will appreciate this comprehensive treatment of state-of-the-art methods and key technologies. *Pressestimmen* 'a good synthesis of robotics for computer science people, and is a useful tool for approaching the area.' G. Gini, *Computing s'* clearly presents the range of topics covered in this multidisciplinary field.' *Industrial Robot* ber das Produkt This book covers the computational methods of programming involved in designing the locomotive, sensing and reasoning systems that enable a robot to perform tasks that involve motion and behavior. It deals with the problems of sensing, navigation, position estimation, and exploration. It illustrates key technologies of current and historical significance.