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## Autonomous Robots: From Biological Inspiration to Implementation and Control (Hardback)

By George A. Bekey

MIT Press Ltd, United States, 2005. Hardback. Condition: New. New.. Language: English . Brand New Book. Autonomous robots are intelligent machines capable of performing tasks in the world by themselves, without explicit human control. Examples range from autonomous helicopters to Roomba, the robot vacuum cleaner. In this book, George Bekey offers an introduction to the science and practice of autonomous robots that can be used both in the classroom and as a reference for industry professionals. He surveys the hardware implementations of more than 300 current systems, reviews some of their application areas, and examines the underlying technology, including control, architectures, learning, manipulation, grasping, navigation, and mapping. Living systems can be considered the prototypes of autonomous systems, and Bekey explores the biological inspiration that forms the basis of many recent developments in robotics. He also discusses robot control issues and the design of control architectures.After an overview of the field that introduces some of its fundamental concepts, the book presents background material on hardware, control (from both biological and engineering perspectives), software architecture, and robot intelligence. It then examines a broad range of implementations and applications, including locomotion (wheeled, legged, flying, swimming, and crawling robots), manipulation (both arms and hands),...



## Reviews

A must buy book if you need to adding benefit. It is rally intriguing throgh reading time period. I am pleased to tell you that here is the very best book i actually have study in my very own lifestyle and may be he finest ebook for at any time. -- Ms. Lora West Jr.

Absolutely among the best publication I have got at any time go through. It really is writter in straightforward phrases rather than hard to understand. Its been designed in an extremely straightforward way which is just soon after i finished reading this publication through which basically modified me, alter the way i believe. -- Mrs. Velda Tremblay

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