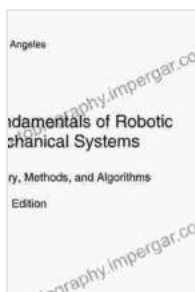


Fundamentals of Robotics Mechanical Engineering 57: A Comprehensive Guide to the Basics of Robotics

Robotics is a rapidly growing field that is revolutionizing the way we live and work. Robots are now used in a wide variety of applications, from manufacturing and healthcare to space exploration and military operations. As the demand for robots continues to grow, so does the need for engineers who are trained in the fundamentals of robotics mechanical engineering.



Fundamentals of Robotics (Mechanical Engineering Book 57)

★★★★★ 5 out of 5

Language : English

File size : 59774 KB

Print length : 448 pages



This book is a comprehensive guide to the basics of robotics mechanical engineering. It covers everything from basic concepts to advanced topics, and is perfect for students, engineers, and anyone interested in the field of robotics.

Chapter 1: to Robotics

This chapter provides an overview of the field of robotics, including its history, applications, and challenges. It also introduces the basic concepts

of robotics, such as kinematics, dynamics, and control.

Chapter 2: Robot Design

This chapter discusses the design of robots, including the selection of materials, actuators, and sensors. It also covers the design of robot structures, such as arms, legs, and bodies.

Chapter 3: Robot Kinematics

This chapter covers the kinematics of robots, which is the study of the motion of robots. It discusses the different types of robot joints, and how to analyze the motion of robots using forward and inverse kinematics.

Chapter 4: Robot Dynamics

This chapter covers the dynamics of robots, which is the study of the forces and torques that act on robots. It discusses the different types of robot forces and torques, and how to analyze the dynamics of robots using Newton's laws of motion.

Chapter 5: Robot Control

This chapter covers the control of robots, which is the study of how to control the motion of robots. It discusses the different types of robot controllers, and how to design and implement robot control systems.

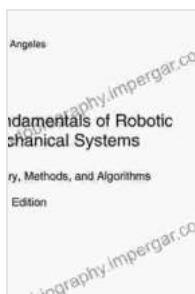
Chapter 6: Applications of Robotics

This chapter discusses the applications of robotics, including manufacturing, healthcare, space exploration, and military operations. It also provides examples of how robots are being used to solve real-world problems.

This book is a comprehensive guide to the basics of robotics mechanical engineering. It covers everything from basic concepts to advanced topics, and is perfect for students, engineers, and anyone interested in the field of robotics.

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