



Robotics

K.K. Appu Kuttan

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Robotics is an applied engineering science that has been referred to as a combination of machine tool technology and computer science. It includes diverse fields such as machine design, control theory, microelectronics, computer programming, artificial intelligence, human factors and production theory.

The present book provides a comprehensive introduction to robotics. The book covers a fair amount of kinematics and dynamics of the robots. It also covers the sensors and actuators used in robotics system. This book will be useful for mechanical, electrical, electronics and computer engineering students.

Key Features

Latest technological developments in robotics

Robotic classifications, robot programming, robotic sensors and actuators.

Kinematics and dynamic analysis of the Robot

Modular systems in robotics

Advances in Robotics systems

Fuzzy logic control in Robotic systems

Biped robot

Bio-mimetic robot

Robot safety and layout

Robot calibration

Numerical examples

Relative merits and demerits of different robot systems

Contents: Fundamentals of Robotics / Robot Programming and Modular Components / Robot Sensors / Robot Actuators / Motion Conversion and Drives / Mathematical Modeling of a Robot / Dynamics of Robot / Advanced Robot Systems / Appendices / Index

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