

**Robotics, 1/e**

Appuu Kuttan K.K.

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**About the Book**

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.

**Salient 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

**Table of Contents**

1- Fundamentals of Robotics

2- Robot Programming and Modular Components

3- Robot Sensors

4- Robot Actuators

5- Motion Conversion and Drives

6- Mathematical Modeling of a Robot

7- Dynamics of Robot

8- Advanced Robot Systems

9- Appendices

10- Index.

**About the Author**

**Appuu Kuttan K.K.** :- Appuu Kuttan KK is Director, Mauluna Azad National institute of Technology, Bhopal (M.P.), India. Earlier he was Professor, Department of Mechanical Engineering, NITK, Surathkal. Twenty Ph.D students have completed their degree under his guidance. He has published more than one hundred papers in international and national journals and conferences. He has thirty years of teaching and 25 years of research experience. His areas of interest are Robotics, Turbomachines, Mechatronics, Finite Element Method and Control Engineering.

