

Chapter 2

Robot Kinematics: Position Analysis

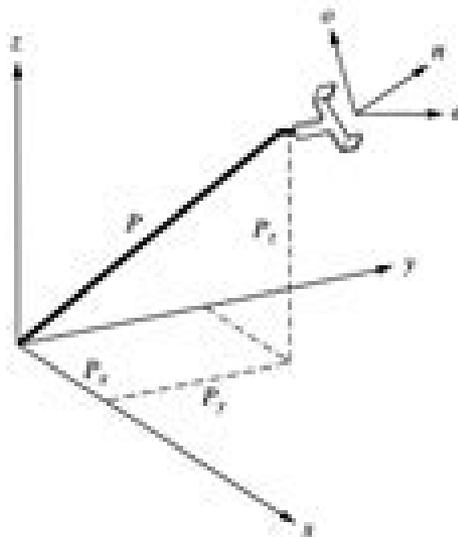
2.7 FORWARD AND INVERSE KINEMATICS OF ROBOTS

2.7.1 Forward and Inverse Kinematics Equations for Position

2.7.1(a) Cartesian (Gantry, Rectangular) Coordinates

◆ IBM 7565 robot

- All actuator is linear.
- A gantry robot is a Cartesian robot.



$${}^R T_P = T_{cart} = \begin{bmatrix} 1 & 0 & 0 & P_x \\ 0 & 1 & 0 & P_y \\ 0 & 0 & 1 & P_z \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

Fig. 2.18 Cartesian Coordinates.

Chapter 2 Robot Kinematics And Dynamics Modeling

Tao Wei

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Table of Contents Chapter 2 Robot Kinematics And Dynamics Modeling

1. Understanding the eBook Chapter 2 Robot Kinematics And Dynamics Modeling
 - The Rise of Digital Reading Chapter 2 Robot Kinematics And Dynamics Modeling
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 2 Robot Kinematics And Dynamics Modeling
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 2 Robot Kinematics And Dynamics Modeling
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 2 Robot Kinematics And Dynamics Modeling
 - Personalized Recommendations
 - Chapter 2 Robot Kinematics And Dynamics Modeling User Reviews and Ratings
 - Chapter 2 Robot Kinematics And Dynamics Modeling and Bestseller Lists
5. Accessing Chapter 2 Robot Kinematics And Dynamics Modeling Free and Paid eBooks
 - Chapter 2 Robot Kinematics And Dynamics Modeling Public Domain eBooks
 - Chapter 2 Robot Kinematics And Dynamics Modeling eBook Subscription Services

- Chapter 2 Robot Kinematics And Dynamics Modeling Budget-Friendly Options
- 6. Navigating Chapter 2 Robot Kinematics And Dynamics Modeling eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 2 Robot Kinematics And Dynamics Modeling Compatibility with Devices
 - Chapter 2 Robot Kinematics And Dynamics Modeling Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 2 Robot Kinematics And Dynamics Modeling
 - Highlighting and Note-Taking Chapter 2 Robot Kinematics And Dynamics Modeling
 - Interactive Elements Chapter 2 Robot Kinematics And Dynamics Modeling
- 8. Staying Engaged with Chapter 2 Robot Kinematics And Dynamics Modeling
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 2 Robot Kinematics And Dynamics Modeling
- 9. Balancing eBooks and Physical Books Chapter 2 Robot Kinematics And Dynamics Modeling
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 2 Robot Kinematics And Dynamics Modeling
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 2 Robot Kinematics And Dynamics Modeling
 - Setting Reading Goals Chapter 2 Robot Kinematics And Dynamics Modeling
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 2 Robot Kinematics And Dynamics Modeling
 - Fact-Checking eBook Content of Chapter 2 Robot Kinematics And Dynamics Modeling
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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