

# Chapter 2

## Robot Kinematics: Position Analysis

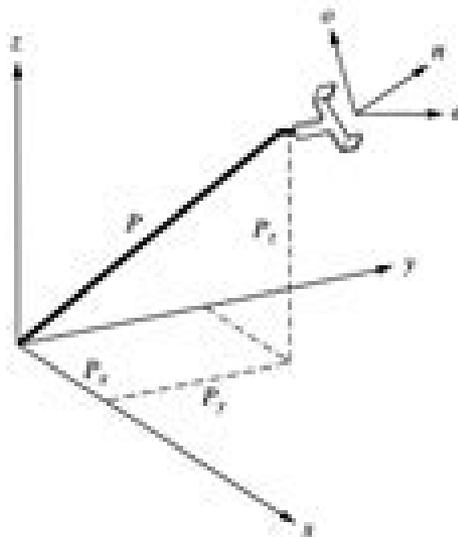
### 2.7 FORWARD AND INVERSE KINEMATICS OF ROBOTS

#### 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

**D. M. Dawson, Michael M.  
Bridges, Zihua Qu**



## Chapter 2 Robot Kinematics And Dynamics Modeling:

**Advanced Dynamics Modeling, Duality and Control of Robotic Systems** Edward Y.L. Gu, 2021-09-23 This book provides detailed fundamental theoretical reviews and preparations necessary for developing advanced dynamics modeling and control strategies for various types of robotic systems This research book specifically addresses and discusses the uniqueness issue of representing orientation or rotation and further proposes an innovative isometric embedding approach The novel approach can not only reduce the dynamic formulation for robotic systems into a compact form but it also offers a new way to realize the orientational trajectory tracking control procedures In addition the book gives a comprehensive introduction to fundamentals of mathematics and physics that are required for modeling robot dynamics and developing effective control algorithms Many computer simulations and realistic 3D animations to verify the new theories and algorithms are included in the book as well It also presents and discusses the principle of duality involved in robot kinematics statics and dynamics The duality principle can guide the dynamics modeling and analysis into a right direction for a variety of robotic systems in different types from open serial chain to closed parallel chain mechanisms It intends to serve as a diversified research reference to a wide range of audience including undergraduate juniors and seniors graduate students researchers and engineers interested in the areas of robotics control and applications

**Wearable Robots** José L. Pons, 2008-04-15 A wearable robot is a mechatronic system that is designed around the shape and function of the human body with segments and joints corresponding to those of the person it is externally coupled with Teleoperation and power amplification were the first applications but after recent technological advances the range of application fields has widened Increasing recognition from the scientific community means that this technology is now employed in telemanipulation man amplification neuromotor control research and rehabilitation and to assist with impaired human motor control Logical in structure and original in its global orientation this volume gives a full overview of wearable robotics providing the reader with a complete understanding of the key applications and technologies suitable for its development The main topics are demonstrated through two detailed case studies one on a lower limb active orthosis for a human leg and one on a wearable robot that suppresses upper limb tremor These examples highlight the difficulties and potentialities in this area of technology illustrating how design decisions should be made based on these As well as discussing the cognitive interaction between human and robot this comprehensive text also covers the mechanics of the wearable robot and its biomechanical interaction with the user including state of the art technologies that enable sensory and motor interaction between human biological and wearable artificial mechatronic systems the basis for bioinspiration and biomimeticism general rules for the development of biologically inspired designs and how these could serve recursively as biological models to explain biological systems the study on the development of networks for wearable robotics Wearable Robotics Biomechatronic Exoskeletons will appeal to lecturers senior undergraduate students postgraduates and other researchers of medical electrical and bio engineering who are interested in

the area of assistive robotics Active system developers in this sector of the engineering industry will also find it an informative and welcome resource

*Dynamic Modeling of Wheeled Mobile Robots* Demick Boyden,1993 Experiments in Cooperative-arm Object Manipulation with a Two-armed Free-flying Robot Ross Koningstein,Stanford University. Department of Aeronautics and Astronautics,1990 *Applied Mechanics Reviews* ,1987 Efficient Algorithms for Articulated Branching Mechanisms: Dynamic Modeling, Control, and Simulation Kyong-Sok Chang,2000 **Design, Dynamics and Control Issues in a Parallel Link Robot Crane** Arulkumar P. Shanmugasundram,1995 On Tracking Performance of a Robot Manipulator Under Force Control Seul Jung,1991 **Complex Robotic Systems** Pasquale Chiacchio,Stefano Chiaverini,1998-04-09 Robotic systems have proved themselves to be of increasing importance and are widely adopted to substitute for humans in repetitive or hazardous situations Their diffusion has outgrown the limits of industrial applications in manufacturing systems to cover all aspects of exploration and servicing in hostile environments such as undersea outer space battlefields and nuclear plants Complex robotic systems ie robotic systems with a complex structure and architecture are gaining increasing attention from both the academic community and industrial users The modelling and control problems for these systems cannot be regarded as simple extensions of those for traditional single manipulators since additional complexity arises to accomplish tasks there is the need to ensure coordinated motion of the whole system together with management of interaction between each component of the system This book focuses on two examples of complex robotic systems namely cooperating manipulators and multi fingered hands It is addressed to graduate students as well as to researchers in the field **Visual Control of Robots** Peter I. Corke,1996 *Nonlinear Adaptive Formation Control for a Class of Autonomous Holonomic Planetary Exploration Rovers* Farid Ganji,2007 *Introduction to Robotics* Phillip McKerrow,1991 This book provides an introductory text for students coming new to the field of robotics and a survey of the state of the art for professional practitioners Some of the outstanding features of this book include A unique approach which ties the multi disciplinary components of robotics into a unified text Broad and in depth coverage of all the major topics from the mechanics of movement to modelling and programming Rigorous mathematical treatment of mature topics combined with an algorithmic approach to newer areas of research Practical examples taken from a wide range of fields including computer science electronic engineering mechanical engineering and production engineering Step by step development of problems and many worked examples **The International Journal of Mechanical Engineering Education** ,1986 *Robot Modeling and Control* Mark W. Spong,Seth Hutchinson,M. Vidyasagar,2020-02-07 A New Edition Featuring Case Studies and Examples of the Fundamentals of Robot Kinematics Dynamics and Control In the 2nd Edition of Robot Modeling and Control students will cover the theoretical fundamentals and the latest technological advances in robot kinematics With so much advancement in technology from robotics to motion planning society can implement more powerful and dynamic algorithms than ever before This in depth reference guide educates readers in four distinct parts the first two

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Memoirs of the Scientific Sections of the Academy of the Socialist Republic of Romania ,1985     *Principles of Robot Modelling and Simulation* Saïd M. Megahed,1993     **Design, Construction, and Control of a Two Degree-of-freedom Electric Direct-drive Human Power Amplifier** Ming-Guo Her,1991     Journal of Mechanisms, Transmissions, and Automation in Design ,1986     **Proceedings** ,1987     **Nonlinear Control of Robotic Systems for Environmental Waste and Restoration** D. M. Dawson,Michael M. Bridges,Zhihua Qu,1995 This text focuses on the robust control of robotic manipulators with special emphasis on the theoretical and implementational issues for environmental waste and restoration applications The book has been written from a robot control engineering perspective

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