



Advanced Robotics Design & Applications

Author :	Sabrie Soloman
ISBN 13 :	978-93-55382-00-9
ISBN 10 :	93-55382-00-6
E-ISBN 13 :	978-93-55382-00-9
Edition :	1
Pages :	280
Type of book :	Paperback
Weight (g) :	400.00
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 498.00
Categories :	Emerging Technologies
SKU :	1725649466
Condition Type :	New
Country Origin :	India

Product Description

This book delivers an outline of an introduction to articulated robot mechanisms. Dynamics, and intelligent controls. Applications and exercises are tailored to experience servo-drives implementation. real-time control. Exercises are particularly composed for students to design and fabricate practical working robotic systems in supervised group-setting environments. * Artificial Intelligence (AI) in Humanoids-for Good not Evil. * Medical & Surgical Robots. * Nano Robots (Swarm) in Blood Cells Fighting Cancer. * Robot in Hazard Environment. * Military Robot-The Death Machine. * Galactic Robots-Mars Rovers. * Enhancing the National Economy of a Nation. * Robotics World- Championship. *Robots-Friend of Foe?

Table of Contents

Chapter 1: Advanced Robot Technology Application and Design.

Chapter 2: Robot Manipulator Design.

Chapter 3: Advanced Robotic Applications in Manufacturing.

Chapter 4: Actuators and Control Systems.

Chapter 5: Robot Mechanism.

Chapter 6: Geometry of Motion.

Chapter 7: Mathematical Differential Motion.

Chapter 8: Robotic Force and Moments.

Chapter 9: Applied Forces and Energy.

Chapter 10: Humanoid Robots- Factory of the Future.

Author

Sabrie Soloman, Ph.D, Sc.D., MBA, PE- he is the Chairman & CEO of American Senso Rx, Inc., USA; Founder of Advanced manufacturing Technology Post Graduate Studies at Columbia University, NY, USA; Professor of Advanced Technology at Columbia University Dr. Soloman Authored numbers of technical books published and translated worldwide: Sensors Handbook (2 Editions, Sensors and Control Systems in Manufacturing (2 edition); Affordable Automation; introduction to Electromechanical Engineering; Modern Welding Technology; 3D Printing Technology ; 3D Bioprinting Technology & Design to name a few. Dr. Soloman holds numerous patents, Technical Awards, and several US Product Registrations. Dr. Soloman is considered an international authority on advanced manufacturing technology, robotics, biomedical engineering, pharmaceuticals, and automation in the microelectronic, automotive, beef, pork, poultry industries. He has been and continue to be instrumental in developing and implementing several industrial and modernization programs through the United Nations to Europe, Asia and African Countries. He is the first to introduce and implement unmanned flexible synchronous/asynchronous manufacturing systems in the microelectronic and the meat industries, and the first to incorporate advanced vision technology in wide array of robot/ microrobot manipulators. Dr. Soloman was selected to deliver the Us presidential closing address “innovative Remote Sensors Technology”, at the universal Design Conference”, New York, USA. Dr. Soloman was the President of the International Christian Union at New Castle-Upon-Tyne University. He debated the “Origin of the Universe” before numerous attendees presenting his case against intellectuals and proponents of Big Bang’s Singularity in Great Britain.



Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320