INDUSTRIAL AUTOMATION AND ROBOTICS



Lingjun Ying

Industrial Automation and Robotics A. K. Gupta, Gupta, 2007 **Industrial Automation and Robotics** A. K. Gupta, S. K. Arora, 2011-02 This text is meant to fill a long felt need for a comprehensive book on Industrial Automation and Robotics The book retains all aspects of the course in a unified manner as far as possible at undergraduate level The book is specifically written to meet the requirements of syllabus of PTU and various other universities. The book is written in a simple and easy language so that the students can grasp the subject by self study The purpose of this book is to present a basic introduction to the multidisciplinary field of Automation The book begins with a brief introduction of Automation Chapter 2 deals with laws and principles upon which Hydraulics and Pneumatics are based upon In Chapter 3 the components of basic Pneumatic and Hydraulic systems are discussed Chapter 4 which is on pumps and compressors deals with characteristics and properties of all the pumps and compressors used in industry Chapter 5 concentrates on Pneumatic and Hydraulic accessories like filters lubricators air dryers FRL s pipelines connectors etc Chapter 6 deals with Pneumatic and Hydraulic actuators which covers classification construction and working of cylinders and motors Chapter 7 deals with construction and working of various Pneumatics and Hydraulics valves In Chapter 8 basic Pneumatic and Hydraulic circuits are discussed Chapter 9 which is on Fluidics discusses the basic theories and advancements in this field and various fluidic components Chapter 10 is on Pneumatic logic circuit design which discusses various methods on circuit design Chapter 11 is on electric and electronic controls used in automation Components like sensors PLC s and microprocessors are included Chapter 12 deals with Transfer Devices and Feeders Chapter 13 17 are on Robotics These cover Robotic Sensors Robotic Grippers Robot Programming and Applications of Robots in industry Information and Communication Technologies in Education, Research, and Industrial Applications Vadim Ermolayev, Heinrich C. Mayr, Mykola Nikitchenko, Aleksander Spivakovsky, Grygoriy Zholtkevych, 2014-11-27 This book constitutes the thoroughly refereed proceedings of the 10th International Conference on Information and Communication Technologies in Education Research and Industrial Applications held in Kherson Ukraine in June 2014 The 16 revised full papers presented were carefully reviewed and selected from 66 submissions The papers are organized in topical sections on framework and tools information and communication technologies in teaching and learning information and communication technologies in research and industrial applications

Applications of Artificial Intelligence in Business and Finance 5.0 Richa Goel, Vikas Garg, Michela Floris, 2024-12-06 This new book provides a valuable overview of how artificial intelligence AI applications are transforming global businesses and financial organizations looking at the newest artificial intelligence based solutions for e commerce corporate management finance banking and trading and more Chapters look at using AI and machine learning techniques to forecast and assess financial risks such as liquidity risk volatility risk and credit risk The book also describes the use of natural language processing and text mining paired with machine learning models to assist in guiding sophisticated investors

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International Conference on Automation Robotics and Applications ICARA 2011 which was held in Wellington New Zealand from 6 8 December 2011 Scientists and engineers who work with robots and automation systems will find this book very useful and stimulating Fundamentals of Robot Technology D. J. Todd, 1986-07-02 A thorough introduction to all aspects of robotics emphasizing its potential in industry Provides coverage of industrial robots remotely controlled arms and mobile robots Begins with a preliminary discussion of basic concepts and terms and goes on to cover various applications Summarizes the uses and engineering of telechiric manipulators and mobile robots **Robotics And Industrial Automation** R. K. Rajput, 2008 Introduction to Industrial Robotics Ramachandran Nagarajan, 2016 Robotics is the branch of technology that deals with the design construction operation and application of robots It is a subject offered to the students of mechanical engineering in their final year This book is written to cover the needs of a buddi Automation and Robotics Knowledge Flow, 2016-02-10 Automation and Robotics by Knowledge Flow is a comprehensive guide designed for students engineers and tech enthusiasts eager to explore the future of intelligent systems This book covers robotic process automation RPA industrial robotics artificial intelligence AI machine learning ML IoT integration and advanced automation technologies Readers will gain insights into robotic kinematics control systems autonomous robots sensor technology and automation in smart industries With real world applications in manufacturing healthcare logistics and smart cities this book provides a solid foundation in automation and robotics Whether you re a beginner or a professional this resource offers in depth knowledge to help you stay ahead in the rapidly evolving world of robotics engineering and automation technology

Introduction to Industrial Automation Stamatios Manesis, George Nikolakopoulos, 2018-03-29 This book provides an extended overview and fundamental knowledge in industrial automation while building the necessary knowledge level for further specialization in advanced concepts of industrial automation. It covers a number of central concepts of industrial automation such as basic automation elements hardware components for automation and process control the latch principle industrial automation synthesis logical design for automation electropneumatic automation industrial networks basic programming in PLC and PID in the industry

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