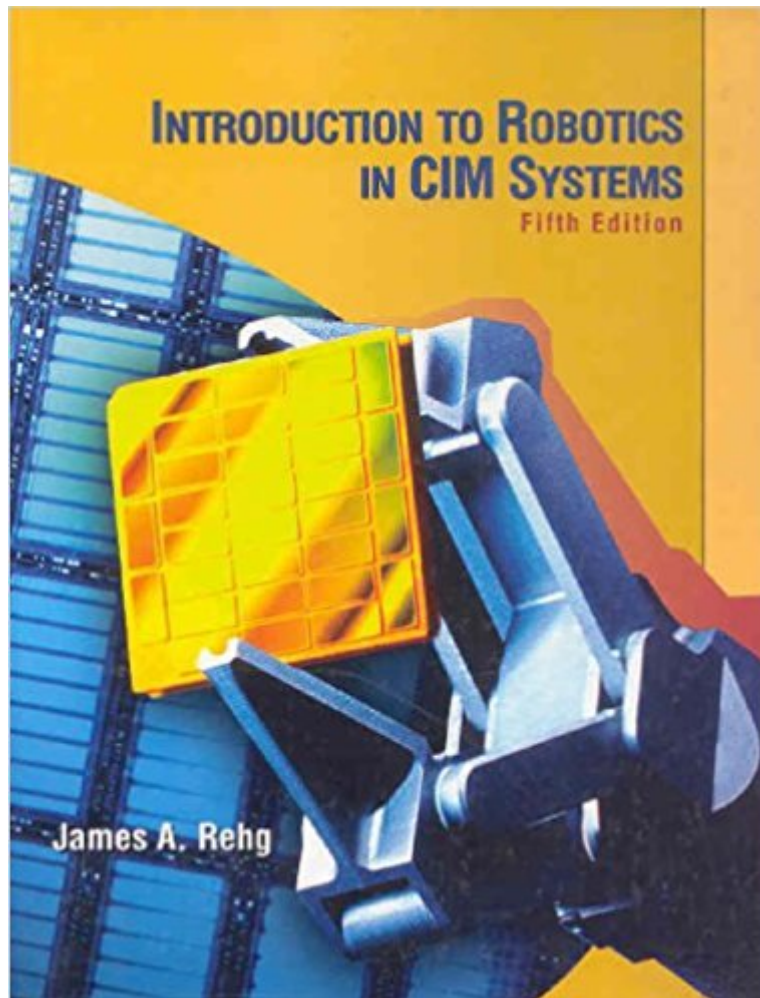




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Introduction To Robotics In CIM Systems (5th Edition)



Synopsis

Written from a manufacturing perspective, this book takes readers step-by-step through the theory and application techniques of designing and building a robot-driven automated work cell -- from selection of hardware through programming of the devices to economic justification of the project. All-inclusive in approach, it covers not only robot automation, but all the other technology needed in the automated work cell to integrate the robot with the work environment and with the enterprise data base. Robot and other required automation hardware and software are introduced in the order in which they would be selected in an actual industrial automation design. Includes system troubleshooting guides, case studies problems, and worked example problems. Robot Classification. Automated Work Cells and CIM Systems. End-of-Arm Tooling. Automation Sensors. Work-Cell Support Systems. Robot and System Integration. Work-Cell Programming. Justification and Applications of Work Cells. Safety. Human Interface: Operator Training, Acceptance, and Problems. For those interested in Robotics and Manufacturing Automation or Production Design.

Book Information

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Customer Reviews

This text addresses the use of robots for flexible automation from a manufacturing systems viewpoint -- i.e., how robots interface with all the manufacturing hardware and software. It contains an abundance of industrial applications, and weaves a major case study throughout -- allowing students to follow -- and join -- an automation design team as they work through each stage of the

design process. An accompanying disk and video provide project data. --This text refers to an out of print or unavailable edition of this title.

Employment trends in the field of robotics have changed over the years. Engineers and technicians no longer concentrate solely on robot technology; instead, they are capable of working on the entire production system. For this reason, any training in robotics must reflect this emphasis on the total system. The need for personnel who can design, develop, implement, and provide support for automated production systems with robots is significant and is growing. This fifth edition of Introduction to Robotics in CIM Systems includes information about the hardware, software, and programming that support the implementation of automated work cells and manufacturing systems. New in the fifth edition of the text: Goals and objectives listed at the beginning of each chapter. A career spotlight highlights careers related to the concepts being covered in every chapter. Updated information on safety and troubleshooting. A section outlining program commands for the Yaskawa robot. Major updates and additions throughout. Instructors who are using this book for a course should obtain the accompanying Instructor's Manual (ISBN 0-15-060245-0).

Exactly as described

Had a huge dent in it as if someone chucked it at a hand railing or steel fence post..

Too small, yet it covers almost all the basic and essential lessons that you need to learn about robotics. I wished if the book was more comprehensive and more technical, but it's not.

Really helpful!!! Have learned a lot from this old timer.

My book came printed on cheap paper seemingly by an inkjet printer. Is this a counterfeit book or something? The letters are a little blurry. I'm worried what this will do to my eyes when studying.

Great! Shipped quick!

Great textbook for school!

This book was the only reason I got anything out of the class that I took on Automation and

Robotics. It is very informative and easy to read. The questions and problems at the end of each chapter also help reinforce the chapter's concepts. Practical uses!

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