



Industrial Automation and Robotics: An Introduction

By A.K. Gupta, S.K. Arora, Jean Riescher Westcott

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The purpose of this book is to present an introduction to the multidisciplinary field of automation and robotics for industrial applications. The companion files include numerous video tutorial projects and a chapter on the history and modern applications of robotics. The book initially covers the important concepts of hydraulics and pneumatics and how they are used for automation in an industrial setting. It then moves to a discussion of circuits and using them in hydraulic, pneumatic, and fluidic design. The latter part of the book deals with electric and electronic controls in automation and final chapters are devoted to robotics, robotic programming, and applications of robotics in industry.

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- * Begins with introductory concepts on automation, hydraulics, and pneumatics
- * Covers sensors, PLC's, microprocessors, transfer devices and feeders, robotic sensors, robotic grippers, and robot programming

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Editorial Review

Review

"*Industrial Automation and Robotics* provides a basic but technical introduction to the field of robotics in industrial applications, and covers the basic mechanical and electrical concepts involved and how they are used in automation. Chapters survey physics laws and basic principles of operation, closely inspect circuitry and fluidics, and add information on the programming and operations of robots. Packed with technical discussions and an attention to an overview that is clear and definitive, *Industrial Automation and Robotics* is recommended as a basic introduction for any novice entering the field." (The Technology Shelf, The Bookwatch *Midwest Book Review*)

About the Author

A.K. Gupta has been an instructor of mechanical engineering for over ten years and has had numerous research papers published in peer-reviewed international journals in this field.

S.K. Arora is a university instructor and researcher.

Jean Riescher Westcott has written broadly on technology in books and online. She is a co-author of *The Complete Idiot's Guide to Electronics 101* (Alpha/Penguin Books) and *Digitally Daunted: The Consumer's Guide to Taking Control of the Electronics in Your Life* (Capital Books).

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