

# Programmable Automation Technologies: An Introduction to CNC, Robotics and PLCs

Daniel Kandray



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**Programmable Automation Technologies: An Introduction to CNC, Robotics and PLCs** Daniel Kandray

Divided into four parts, *Programmable Automation* focuses on programmable automation technologies used in industry. Comprehensive yet concise, this unique textbook provides a solid foundation of analytical techniques to justify automation and the knowledge and instruction of how to program computer numerical controlled (CNC) equipment, industrial robots and programmable logic controllers (PLC). Through a very practical approach, readers will learn specific programming languages related to each technology including G code and ladder logic. And it is sure to be found useful by electrical, industrial, mechanical and/or manufacturing engineering technology undergraduate students, in addition to anyone in industry interested in learning about programmable automation and developing the corresponding programming skills.

- Each chapter begins with an overview of chapter material with emphasis on desired outcomes and concludes with a summary, questions, and problems where appropriate.
- Presents explicit skills and methodologies to aid in the programming process.
- Features a good use of examples with numerous illustrations.
- Uses computer simulation and actual lab equipment extensively in learning activities.



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