



Industrial Controls and Manufacturing (Engineering)

Edward W. Kamen

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This book is intended for individuals who wish to take advantage of the growing opportunities that exist in the controls field with applications to manufacturing. The book contains an introductory treatment of the essential topics including process control, discrete logic control, ladder logic diagrams, manufacturing systems, and production control. The required background for reading the text is prior exposure to the concepts of signals and systems. This book is written at a level appropriate for junior or senior level engineering students in industrial, mechanical, chemical, and electrical engineering. The text can also be used as a technical reference for professional engineers who wish to obtain some exposure to the fundamentals of industrial controls and manufacturing. Features of the book are:

- * Covers both analog and digital control using P/PI/PID controllers and discrete logic control using ladder logic diagrams and programmable logic controllers
- * Contains a brief introduction to model predictive control, adaptive control, and neural net control
- * Covers control from the device/process level up to and including the production system level
- * Contains an introduction to manufacturing systems with the emphasis on performance measures, flow-line analysis, and line balancing
- * Contains a chapter on equipment interfacing with a brief introduction on OLE for process control (OPC), the GEM standard, fieldbuses, and Ethernet
- * Material is based on a course with a lab project developed and taught at the Georgia Institute of Technology
- * Coverage is at the introductory level with a minimal amount of background required to read the text

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