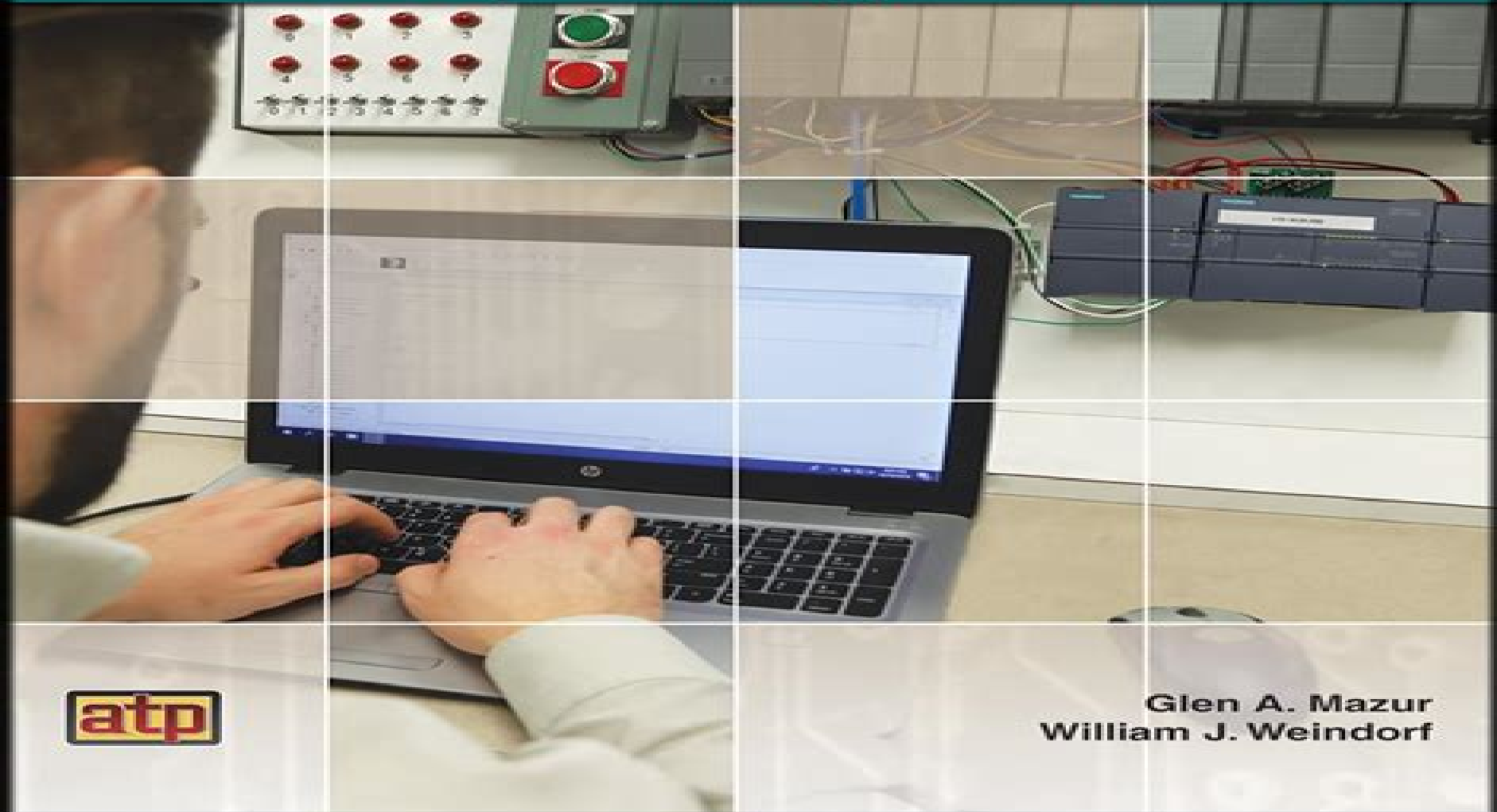


Programmable Logic Controllers

Principles and Applications

Third Edition



atp

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William J. Weindorf

Programmable Controllers Principles And Applications

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Fodor,2013-11-27 Kevin M Passino When confronted with a control problem for complicated physical process a control engineer usually follows a predetermined design procedure This procedure often begins with the engineer seeking to understand the process and the primary control objectives A simple example of a control problem is an automobile cruise control that provides the automobile with the capability of regulating its own speed at a driver specified set point e g 55 mph One solution to the automotive cruise control problem involves adding an electronic controller that can sense the speed of the vehicle via the speedometer and actuate the throttle position so as to regulate the vehicle speed at the driver specified value Such speed regulation must be accurate even if there are road grade changes head winds or variations in the number of passengers in the automobile After gaining an intuitive understanding of the plant s dynamics and establishing the design objectives the control engineer typically solves the cruise control problem by using an established design procedure In particular this control engineering design methodology involves 1 Modeling understanding the plant 2 Construction of a controller to meet specifications such as stability rise time overshoot and steady state error 3 Analysis to make sure that the system will meet the performance objectives e g we might use mathematical simulation based or experimental analysis and 4 Iterating on the design until it is possible to commission the control system Automating Manufacturing Systems with Plcs

Hugh Jack,2009-08-27 An in depth examination of manufacturing control systems using structured design methods Topics include ladder logic and other IEC 61131 standards wiring communication analog IO structured programming and communications Allen Bradley PLCs are used extensively through the book but the formal design methods are applicable to most other PLC brands A full version of the book and other materials are available on line at <http://engineeronadisk.com>

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Computer Control of Processes M. Chidambaram,2002 This work covers computers and the principles in designing digital controllers Details on computer networking topology communication protocol and a brief description of DCS are provided New topics such as programmable logic control PLCs smart sensors and fieldbus identification and design of nonlinear

controllers are also covered The text also presents fundamentals of fuzzy logic control design of such controllers and use of fuzzy logic in improving the performance of conventional PID controllers

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