

# Digital Computer Process Control

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# Digital Computer Process Control

**M. Paul**



## **Digital Computer Process Control:**

Digital Computer Applications to Process Control M. Paul, 2016-11-04 Considers the application of modern control engineering on digital computers with a view to improving productivity and product quality easing supervision of industrial processes and reducing energy consumption and pollution The topics covered may be divided into two main subject areas 1 applications of digital control in the chemical and oil industries in water turbines energy and power systems robotics and manufacturing cement metallurgical processes traffic control heating and cooling 2 systems theoretical aspects of digital control adaptive systems control aspects multivariable systems optimization and reliability modelling and identification real time software and languages distributed systems and data networks Contains 84 papers Elements of Computer Process Control, with Advanced Control Applications Pradeep B. Deshpande, Raymond H. Ash, 1981 **4th IFAC/IFIP International Conference on Digital Computer Applications to Process Control** M. Mansour, W. Schauffelberger, 2012-12-06 Digital computers have been used more and more to control different industrial processes during the last decade As of today many systems are designed to include a process control computer as a vital part The use of computers has created a need for sophisticated methods for the operation and supervision of complex industrial processes To summarize the state of the art from the practical as well as from the theoretical point of view the 4th IFAC IFIP International Conference on Digital Computer Applications to Process Control will be held at Zurich from March 19 to 22 1974 The first two volumes of the proceedings contain the accepted papers submitted to the conference mentioned above The papers are arranged according to the topics of the conference A third volume will include the six following survey papers 1 Digital Control Algorithms Prof A P Sage Dallas Texas USA 2 Interface Problems for Process Control Prof T J Williams Lafayette Indiana USA 3 Software for Process Computers Dr J Gertler Budapest Hungary Dr J Sedlak Prague CSSR 4 Digital Computer Applications in Metallurgical Processes Mr W E Miller Salem USA Mr W G Wright Schenectady USA 5 Digital Computer Applications in Power Systems Mr D Ernst Erlangen FRG 6 Digital Computer Applications in Chemical and Oil Industries Dr H Amrehn Marl FRG We hope that the publication of these papers from specialists **Digital Computer Process Control** Cecil L. Smith, 1972 **Digital Computer Applications to Process Control** R. Isermann, H. Kaltenecker, 2014-05-20 Digital Computer Applications to Process Control presents the developments in the application of digital computers to the control of technical processes This book discusses the control principles and includes as well direct feedback and feed forward control as monitoring and optimization of technical processes Organized into five parts encompassing 77 chapters this book begins with an overview of the two categories of microprocessor systems This text then discusses the concept of a sensor controlled robot that adapts to any task assures product quality and eliminates machine tending labor Other chapters consider the ergonomic adaptation of the human operator's working conditions to his abilities This book discusses as well the self tuning regulator for liquid level in the acetic acid evaporator and its actual performance in production The final chapter deals with



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