

# Digital Computer Control System

## Roles of Computer in Measurement and Process Control

- Computers are now extensively used for measurement and control in process and manufacturing industries. It has brought **new possibilities and new challenges** to measurement and control engineers.
- The basic objective of computer based measurement and control is to acquire the information from field devices (input), and compute a logical decision to manipulate the material and energy flow of given process in a desired way to get optimal output.
- The expectations from a process computer compared to a general purpose computer is primarily in terms of **response time, computing power, flexibility and fault tolerance**, which are need to be rigid and reliable.
- The control of the process has to be carried out in real-time.

## Difficulties Encountered

- Mostly for process computers it is difficult to provide a solution to the problem of complexity, flexibility, and geographical separation of process elements (plant equipment) which are to be operated in a controlled manner.

# Digital Computer Control Eng

**Robert H. Perry**



## Digital Computer Control Eng:

**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 algebraic method for deadbeat control of multivariable linear time invariant continuous systems This book is a valuable resource for electrical and control engineers

Digital Computer Control Systems Gurvinder S. Virk, 1991 Digital control methods are replacing most conventional analogue systems The aim of this book is to present an up to date introduction to these systems and to instruct and assist readers so that they are able to connect computers to real systems for control and or analysis purposes

*Textbook Of Control Systems Engineering (Vtu)* I. J. Nagrath, Madan Gopal, 2008

CONTROL ENGINEERING BANDYOPADHYAY, M. N., 2002-01-01 This book offers a comprehensive introduction to the subject of control engineering Both continuous and discrete time control systems are treated although the emphasis is on continuous time systems A chapter each is devoted to in depth analysis of non linear control systems control system components and optimal control theory The book also introduces students to the modern concepts of neural fuzzy and adaptive learning systems

Digital Control Engineering M. Sami Fadali, Antonio Visioli, 2012-08-21 Digital controllers are part of nearly all modern personal industrial and transportation systems Every senior or graduate student of electrical chemical or mechanical engineering should therefore be familiar with the basic theory of digital controllers This new text covers the fundamental principles and applications of digital control engineering with emphasis on engineering design Fadali and Visioli cover analysis and design of digitally controlled systems and describe applications of digital controls in a wide range of fields With worked examples and Matlab applications in every chapter and many end of chapter assignments this text provides both theory and practice for those coming to digital control engineering for the first time whether as a student or practicing engineer Extensive Use of computational tools Matlab sections at end of each chapter show how to implement concepts from the chapter Frees the student from the drudgery of mundane calculations and allows him to consider more subtle aspects of control system analysis and design An engineering approach to digital controls emphasis throughout the book is on design of control systems Mathematics is used to help explain concepts but throughout the text discussion is tied to design and implementation For example coverage of analog controls in chapter 5 is not simply a review but is used to show how analog control systems map

to digital control systems Review of Background Material contains review material to aid understanding of digital control analysis and design Examples include discussion of discrete time systems in time domain and frequency domain reviewed from linear systems course and root locus design in s domain and z domain reviewed from feedback control course Inclusion of Advanced Topics In addition to the basic topics required for a one semester senior graduate class the text includes some advanced material to make it suitable for an introductory graduate level class or for two quarters at the senior graduate level Examples of optional topics are state space methods which may receive brief coverage in a one semester course and nonlinear discrete time systems Minimal Mathematics Prerequisites The mathematics background required for understanding most of the book is based on what can be reasonably expected from the average electrical chemical or mechanical engineering senior This background includes three semesters of calculus differential equations and basic linear algebra Some texts on digital control require more

**Digital Control Engineering** M. Sami Fadali, Antonio Visioli, 2019-12-01 Digital controllers are part of nearly all modern personal industrial and transportation systems Every senior or graduate student of electrical chemical or mechanical engineering should therefore be familiar with the basic theory of digital controllers This new text covers the fundamental principles and applications of digital control engineering with emphasis on engineering design Fadali and Visioli cover analysis and design of digitally controlled systems and describe applications of digital control in a wide range of fields With worked examples and Matlab applications in every chapter and many end of chapter assignments this text provides both theory and practice for those coming to digital control engineering for the first time whether as a student or practicing engineer This new edition covers new topics such as Model Predictive Control and Linear Matrix Inequalities To engage students it has more illustrations and simple examples the mathematical notation is reduced where possible and it also includes intermediate mathematical steps in derivations Companion website features resources for instructors including Powerpoint slides and solutions Extensive use of CAD Packages Matlab and Simulink sections at the end of each chapter show how to implement concepts from the chapter Contains review material to aid understanding of digital control analysis and design Includes some advanced material to make it suitable for an introductory graduate level class or for two quarters at the senior graduate level The mathematics background required for understanding most of the book is based on what can be reasonably expected from the average electrical chemical or mechanical engineering senior

*The Digital Hand* James W. Cortada, 2004 This text provides a historical perspective on how some of the most important American industries used computing over the past half century describing their experience their best practices and the role of industries and technologies in changing the nature of American work

*Revival: Computer Control in the Process Industries (1987)* Brian Roffel, Patrick Chin, 2017-07-28 Techniques such as dead time compensation adaptive control and Kalman filtering have been around for some time but as yet find little application in industry This is due to several reasons including Articles in the literature usually assume that the reader is familiar with a



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