



# Digital Control of Dynamic Systems

THIRD EDITION

**Gene F. Franklin**  
**J. David Powell**  
**Michael Workman**

Ellis-Kagle Press eEdition

# Digital Control Of Dynamic Systems

**Jürgen Ackermann**



## **Digital Control Of Dynamic Systems:**

*Digital Control of Dynamic Systems* Gene F. Franklin, J. David Powell, Michael L. Workman, 1990 Textbook about the use of digital computers in the real time control of dynamic systems such as servomechanisms chemical processes and vehicles that move over water land air or space Requires some understanding of the Laplace transform and assumes a first course in linear feedback controls An Digital Control of Dynamic Systems Ellis-Kagle Press, Gene F. Franklin, J. David

Powell, Michael L. Workman, 1998 Discusses the use of digital computers in the real time control of dynamic systems

*Introduction to the Control of Dynamic Systems* Frederick O. Smetana, 1994 Digital Control of Dynamic Systems Gene F. Franklin, J. David Powell, 1980 Identification of Dynamic Systems Rolf Isermann, Marco Münchhof, 2010-11-22 Precise dynamic models of processes are required for many applications ranging from control engineering to the natural sciences and economics Frequently such precise models cannot be derived using theoretical considerations alone Therefore they must be determined experimentally This book treats the determination of dynamic models based on measurements taken at the process which is known as system identification or process identification Both offline and online methods are presented i.e. methods that post process the measured data as well as methods that provide models during the measurement The book is theory oriented and application oriented and most methods covered have been used successfully in practical applications for many different processes Illustrative examples in this book with real measured data range from hydraulic and electric actuators up to combustion engines Real experimental data is also provided on the Springer webpage allowing readers to gather their first experience with the methods presented in this book Among others the book covers the following subjects determination of the non parametric frequency response fast Fourier transform correlation analysis parameter estimation with a focus on the method of Least Squares and modifications identification of time variant processes identification in closed loop identification of continuous time processes and subspace methods Some methods for nonlinear system identification are also considered such as the Extended Kalman filter and neural networks The different methods are compared by using a real three mass oscillator process a model of a drive train For many identification methods hints for the practical implementation and application are provided The book is intended to meet the needs of students and practicing engineers working in

research and development design and manufacturing **Digital Control of Dynamic Systems** Chen-Fang Chang, Gene F. Franklin, J. David Powell, Michael L. Workman, 1998-03-01 Modern Control Engineering P.N. Paraskevopoulos, 2001-11-15 Illustrates the analysis behavior and design of linear control systems using classical modern and advanced control techniques Covers recent methods in system identification and optimal digital adaptive robust and fuzzy control as well as stability controllability observability pole placement state observers input output decoupling and model matching *Control and Dynamic Systems V32: Advances in Aerospace Systems Dynamics and Control Systems Part 2 of 3* C.T. Leonides, 2012-12-02 Control and Dynamic Systems Advances in Theory in Applications Volume 32 Advances in Aerospace Systems Dynamics and

Control Systems Part 2 of 3 deals with significant advances in technologies which support the development of aerospace systems. It also presents several algorithms and computational techniques used in complex aerospace systems. After discussing flight management systems (FMS), this volume presents techniques for treating complex aerospace systems models. These techniques include parameter identification, asymptotic perturbation method, reliability techniques, constrained optimization techniques, and computation methods for decoy discrimination and optimal targeting. This book is an excellent reference for research and professional workers in the field who want a comprehensive source of techniques with significant applied implications.

Feedback Control of Dynamic Systems Gene F. Franklin, J. David Powell, Abbas Emami-Naeini, 2015

Feedback Control of Dynamic Systems covers the material that every engineer and most scientists and prospective managers need to know about feedback control, including concepts like stability, tracking, and robustness. Each chapter presents the fundamentals along with comprehensive worked-out examples all within a real-world context and with historical background information. The authors also provide case studies with close integration of MATLAB throughout. Teaching and Learning Experience: This program will provide a better teaching and learning experience for you and your students. It will provide an understandable introduction to digital control. This text is devoted to supporting students equally in their need to grasp both traditional and more modern topics of digital control. Real-world perspective, comprehensive case studies, and extensive integrated MATLAB/SIMULINK examples illustrate real-world problems and applications. Focus on design: The authors focus on design as a theme early on and throughout the entire book rather than focusing on analysis first and design much later.

Control and Dynamic Systems V18 C.T. Leonides, 2012-12-02

Control and Dynamic Systems Volume 18: Advances in Theory and Applications provides the techniques for the analysis and synthesis of large-scale complex systems. This book begins with a comprehensive treatment of component cost analysis of large-scale systems, including cost-balancing methods for system design, failure mode analysis, model reduction techniques, and design of lower-order controllers that meet on-line controller software limitations. The problem of reduced-order modeling and filtering linear multivariable systems, synthesis techniques, and digital control of dynamical systems are deliberated in the next chapters. This publication concludes with the ship propulsion dynamics simulation and analysis and synthesis of complex distributed parameter systems. This volume is beneficial to students and researchers conducting work on advances in large-scale complex systems.

Control and Dynamic Systems V14 C.T. Leonides, 2012-12-02

Control and Dynamic Systems: Advances in Theory and Applications Volume 14 provides information pertinent to the fundamental aspects of linear and nonlinear multi-input multi-output systems. This book presents the development of analysis and synthesis of these complex systems that describes several important applied issues. Organized into five chapters, this volume begins with an overview of the basic issues in models for large-scale engineering systems and other systems. This text then examines the relations between model complexity or accuracy and system performance. Other chapters consider the various significant systems modeling and control issues in nuclear reactors. This

book discusses as well the modeling issues and their methods that are fundamentally useful to the differential functional DF system The final chapter deals with complex many element power systems and presents techniques for such systems This book is a valuable resource for controls and systems engineers Aeronautic research workers will also find this book extremely useful

**Grundlagen der Regelungstechnik** Frank Dörrscheidt, Wolfgang Latzel, 2013-04-17 Die Automatisierungstechnik befa t sich mit der Aufgabe technische Prozesse derart zu beeinflussen da sie ohne den dauernden Eingriff des Menschen in einer gew nschten Weise ablaufen Teilaufgaben der Automatisierung sind das Messen der relevanten Proze gr en das Steuern der Prozesse mittels Ablauf steuerungen und das Regeln der Proze gr en in geschlossenen Wirkungskrei sen mit dem letzten Aspekt befa t sich der vorliegende Band F r die moderne Volkswirtschaft ist die Automatisierungstechnik eine Schl s seltechnologie Sie erm glicht eine rationelle Fertigung bei geringstm glichem Energie und Materialeinsatz und gew hrleistet eine gleichbleibend hohe Qua lit t der Produkte indem sie die Fertigungstoleranzen zu verringern gestattet und menschliche Irrt mer vermeiden hilft Durch Entlasten des Menschen von erm denden gesundheitssch dlichen oder gar gef hrlichen T tigkeiten tr gt sie entscheidend zu einer Humanisierung der Arbeitswelt bei Die Automatisierungstechnik ist weltweit in einem schnellen Wandel begriffen der gekennzeichnet ist durch den bergang von der analogen zur digitalen Si gnalverarbeitung dem Vordringen dezentraler hierarchisch aufgebauter Automatisierungsstrukturen und dem Trend zu selbstanpassenden und lernenden Systemen Die Lehre auf dem Gebiet der Regelungstechnik an den Hochschu len mu sich diesen Entwicklungen anpassen Gerade der schnelle technische Wandel gebietet allerdings eine Betonung der mathematischen physikalischen und technischen Grundlagen Da der Ingenieur w hrend seines Berufslebens eine Vielzahl von unterschiedlichen Prozessen antreffen wird mu er insbe sondere bef higt werden mathematische Modelle auch f r komplexe Systeme aufgrund physikalischer Gesetzm igkeiten zu erstellen und ihre Eigenschaften zu analysieren

*Control and Dynamic Systems V31: Advances in Aerospace Systems Dynamics and Control Systems Part 1 of 3* C.T. Leonides, 2012-12-02 Control and Dynamic Systems Advances in Theory in Applications Volume 31 Advances in Aerospace Systems Dynamics and Control Systems Part 1 of 3 deals with significant advances in technologies which support the development of aerospace systems It also presents several algorithms and computational techniques used in complex aerospace systems The techniques discussed in this volume include moving bank multiple model adaptive estimation algorithms for multitarget sensor tracking systems algorithms in differential dynamic programming optimal control of linear stochastic systems and normalized predictive deconvolution This book is an important reference for practitioners in the field who want a comprehensive source of techniques with significant applied implications

Digital Control Of Dynamic Systems G.F. Franklin, **Digitale Regelsysteme** R. Isermann, 2013-03-07 An spezielle weniger umfangreiche Aufgaben AuBerdem haben die Mikro prozessoren bisher zum groBen Teil eine kleinere Wortlange eine kleinere Arbeitsgeschwindigkeit und kleinere Betriebssoftware Systeme mit weniger Befehlen Sie lassen sich sehr vielseitig

anwenden so daß sich große Stückzahlen und damit niedere Hardware Kosten ergeben Mit Hilfe dieser Mikroprozessorrechner können nun dezentralisierte Automatisierungssysteme aufgebaut werden Hierzu werden die bisher in einem Prozessorrechner zentral bearbeiteten Aufgaben an verschiedene Mikroprozessorrechner delegiert Zusammen mit digitalen Dynamic Systems and Control Engineering Nader Jalili, Nicholas W. Candelino, 2023-06-15 Using a step by step approach this textbook provides a modern treatment of the fundamental concepts analytical techniques and software tools used to perform multi domain modeling system analysis and simulation linear control system design and implementation and advanced control engineering Chapters follow a progressive structure which builds from modeling fundamentals to analysis and advanced control while showing the interconnections between topics and solved problems and examples are included throughout Students can easily recall key topics and test understanding using Review Note and Concept Quiz boxes and over 200 end of chapter homework exercises with accompanying Concept Keys are included Focusing on practical understanding students will gain hands on experience of many modern MATLAB tools including Simulink and physical modeling in Simscape™ With a solutions manual MATLAB code and Simulink Simscape™ files available online this is ideal for senior undergraduates taking courses on modeling analysis and control of dynamic systems as well as graduates studying control engineering Control and Dynamic Systems V33: Advances in Aerospace Systems Dynamics and Control Systems Part 3 of 3 C.T. Leonides, 2012-12-02 Control and Dynamic Systems Advances in Theory in Applications Volume 33 Advances in Aerospace Systems Dynamics and Control Systems Part 3 of 3 deals with significant advances in technologies which support the development of aerospace systems It also presents several algorithms and computational techniques for complex aerospace systems This book first presents a survey of analytical redundancy techniques to improve turbine engine control systems It then discusses techniques for remotely piloted vehicles control configured vehicles CCV techniques aircraft handling pilot vehicle dynamics and optimal control techniques for complex aerospace structure This text is an excellent reference for research and professional workers in the field who want a comprehensive source of techniques with significant applied implications

**Analysis and Synthesis Techniques in Complex Control and Dynamic Systems** C. T. Leonides, 1994-01-01 Analysis and Synthesis Techniques in Complex Control and Dynamic Systems presents articles on control and dynamic systems The book covers articles on FE and BE combined techniques in structural analysis and optimization simultaneous optimization of structure and robust control and techniques in reduced order dynamic compensator design for stability robustness of linear discrete time systems The text also includes articles about robust control synthesis via mathematical programming techniques system parameter estimation from sampled data and output feedback stabilization of uncertain systems with state delay The techniques in coupled modal sliding mode control of vibration in flexible structures as well as the control and dynamics of the deep space network antennas are also encompassed Electrical engineers mechanical engineers computer engineers and flight engineers will find the book invaluable **Digital Controller Implementation and Fragility** Robert

Istepanian, James F. Whidborne, 2012-12-06 In the usual process of control system design the assumption is made that the controller is implemented exactly. This assumption is usually reasonable since clearly the plant uncertainty is the most significant source of uncertainty in the control system while controllers are implemented with high precision hardware. However inevitably there will be some amount of uncertainty in the controller, a fact that is largely ignored in existing modern advanced robust control techniques. If the controller is implemented by analogue means there are some tolerances in the analogue components. More commonly the controller will be implemented digitally and consequently there will be uncertainty involved with the quantization in the analogue digital conversion and rounding in the parameter representation and in the numerical computations. A failure to account for these uncertainties in the controller may result in a controller that is fragile. A controller is fragile in the sense that very small perturbations in the coefficients of the designed controller destabilize the closed loop control system. This book collects a number of articles which consider the problems of finite precision computing in digital controllers and filters. Written by leading researchers, topics that the book covers include analysis of fragility and finite precision effects, design of optimal controller realizations, design of non fragile robust controllers, design of low complexity digital controllers, analysis of quantization effects in fuzzy controllers.

**Abtastregelung** Jürgen Ackermann, 2013-03-09 FA1 4r die Analyse und Synthese von Abtastsystemen werden Zustandsdarstellungen und z Transformation eng miteinander verknA1 4pft so daA die Vorteile beider Darstellungsweisen voll zum Tragen kommen. Die Polvorgabe beim Entwurf von Beobachtern und Zustandsvektor RA1 4ckfA1 4hrungen wird ausfA1 4hrlich dargestellt. Daneben werden auch Frequenzbereichsverfahren behandelt. Die Grundlagen der Robustheits Theorie sind in der 3. Auflage voll in den gesamten Text integriert. FA1 4r das Parameterraumverfahren zum Entwurf robuster Regelungen steht weiterhin. Band II der zweiten Auflage zur VerfA1 4gung. Speziell auf Abtastsysteme ausgerichtet sind Abschnitte A1 4ber die Wahl der Tasterperiode, nichtsynchrone und nichtideale Abtastung, Verhalten zwischen den Abtastzeitpunkten, Abtastsysteme mit Totzeit, absolute StabilitAt diskreter Systeme mit Stellglied, NichtlinearitAt und Folgen mit endlicher Systemantwort. FES. Aoeber die vom Autor entwickelte Theorie der FES wurde ein neuartiger Zugang zu den strukturellen Eigenschaften, Invarianten und zum Entwurf von MehrgrAAensystemen geschaffen. In der Neuauflage werden nun auch die damit zusammenhAngenden numerischen Probleme mit Hilfe von Hessenberg Transformation behandelt. Neu ist auch ein Abschnitt A1 4ber die StabilitAt von Intervallsystemen.

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