



# Digital Control of Dynamic Systems

THIRD EDITION

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

Ellis-Kagle Press eEdition

# Digital Control Of Dynamic Systems

**C.T. Leonides**



## Digital Control Of Dynamic Systems:

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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, 2017-12-19 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

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invaluable      **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 Frequenzbereichverfahren 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 Tastperiode 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      **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

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