

# Digital Self-tuning Controllers

**V. Bobál, J. Böhm,  
J. Fessl and J. Macháček**

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*Digital Self-tuning Controllers* Vladimír Bobál, Joseph Böhm, Jaromír Fessler, Jirí Macháček, 2005-10-24 Practical emphasis to teach students to use the powerful ideas of adaptive control in real applications Custom made Matlab functionality to facilitate the design and construction of self tuning controllers for different processes and systems Examples tutorial exercises and clearly laid out flowcharts and formulae to make the subject simple to follow for students and to help tutors with class preparation

**Intelligent and Adaptive Systems in Medicine** Olivier C. L. Haas, Keith J. Burnham, 2008-03-19 Intelligent and adaptive techniques are rapidly being used in all stages of medical treatment from the initial diagnosis to planning delivery and follow up therapy To realize the full potential of these techniques developers and end users must understand both the underlying technology and the specifics of the medical application considered Focus

**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

**Fault Diagnosis and Sustainable Control of Wind Turbines** Silvio Simani, Saverio Farsoni, 2018-01-02 Fault Diagnosis and Sustainable Control of Wind Turbines Robust Data Driven and Model Based Strategies discusses the development of reliable and robust fault diagnosis and fault tolerant sustainable control schemes by means of data driven and model based approaches These strategies are able to cope with unknown nonlinear systems and noisy measurements The book also discusses simpler solutions relying on data driven and model based methodologies which are key when on line

implementations are considered for the proposed schemes The book targets both professional engineers working in industry and researchers in academic and scientific institutions In order to improve the safety reliability and efficiency of wind turbine systems thus avoiding expensive unplanned maintenance the accommodation of faults in their early occurrence is fundamental To highlight the potential of the proposed methods in real applications hardware in the loop test facilities representing realistic wind turbine systems are considered to analyze the digital implementation of the designed solutions The achieved results show that the developed schemes are able to maintain the desired performances thus validating their reliability and viability in real time implementations Different groups of readers ranging from industrial engineers wishing to gain insight into the applications potential of new fault diagnosis and sustainable control methods to the academic control community looking for new problems to tackle will find much to learn from this work Provides wind turbine models with varying complexity as well as the solutions proposed and developed by the authors Addresses in detail the design development and realistic implementation of fault diagnosis and fault tolerant control strategies for wind turbine systems Addresses the development of sustainable control solutions that in general do not require the introduction of further or redundant measurements Proposes active fault tolerant sustainable solutions that are able to maintain the wind turbine working conditions with gracefully degraded performance before required maintenance can occur Presents full coverage of the diagnosis and fault tolerant control problem starting from the modeling and identification and finishing with diagnosis and fault tolerant control approaches Provides MATLAB and Simulink codes for the solutions proposed

Theory and Application of Digital Control A. K. Mahalanabis,2014-05-20 Theory and Application of Digital Control contains the proceedings of the IFAC Symposium held at New Delhi India on January 5 7 1982 This book particularly presents the texts of the five plenary talks and the 110 papers of the symposium This book organizes the papers into 109 chapters with nearly one third of the papers focus on digital control particularly software and hardware of control using microcomputers computer aided design and adaptive control and modeling for digital control Another set of papers deal with several applications of digital control techniques in solving interesting problems of socio economic systems electrical power systems bio systems and artificial satellites The reader will benefit hugely from the topics in this book that span several important theoretical and applied areas of the fast changing topic of digital control

*Control Theory and Advanced Technology* ,1987 Control and Mechatronics Bodgan Wilamowski,J. David Irwin,2018-10-08 The Industrial Electronics Handbook Second Edition combines traditional and newer more specialized knowledge that will help industrial electronics engineers develop practical solutions for the design and implementation of high power applications Embracing the broad technological scope of the field this collection explores fundamental areas including analog and digital circuits electronics electromagnetic machines signal processing and industrial control and communications systems It also facilitates the use of intelligent systems such as neural networks fuzzy systems and evolutionary methods in terms of a hierarchical structure that makes factory control and

supervision more efficient by addressing the needs of all production components Enhancing its value this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal one of the largest and most respected publications in the field Control and Mechatronics presents concepts of control theory in a way that makes them easily understandable and practically useful for engineers or students working with control system applications Focusing more on practical applications than on mathematics this book avoids typical theorems and proofs and instead uses plain language and useful examples to Concentrate on control system analysis and design comparing various techniques Cover estimation observation and identification of the objects to be controlled to ensure accurate system models before production Explore the various aspects of robotics and mechatronics Other volumes in the set Fundamentals of Industrial Electronics Power Electronics and Motor Drives Industrial Communication Systems Intelligent Systems The British National Bibliography Arthur James Wells,2005 **Advanced Control in Computer Integrated Manufacturing** Henry M. Morris,E. J. Kompass,Theodore Joseph Williams,1987 **Applied Digital Control** James R. Leigh,1985 An essential core text this volume develops theoretical foundations and explains how control systems work in real industrial situations Several case histories assist students in visualizing applications 1992 edition *International Aerospace Abstracts* ,1995 **Documentation Abstracts** ,1984 *Proceedings of the 1999 IEEE International Conference on Control Applications* ,1999 **International Journal of Electrical Engineering Education** ,1988 **Proceedings of the 1983 American Control Conference, Sheraton-Palace Hotel, San Francisco, California, June 22, 23, 24, 1983** American Automatic Control Council,1983 **Proceedings of the ... American Control Conference** ,1983 **Proceedings of the 1983 American Control Conference** ,1983 **NASA SP.** ,1984 **Implementation of Self-tuning Controllers** Kevin Warwick,1988 Recursive estimation schemes for self tuning control LOG based self tuning controllers Simplified self tuning control algorithms Implementation of continuous time controllers Numerical problems in adaptive control Self tuning control using extended prediction horizons Software aspects of self tuning control Application of long range predictive control Self adaptive state variable feedback control with application to glasshouse systems Self tuning control a case study LQG adaptive autopilots **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1990 Issues for 1973 cover the entire IEEE technical literature

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