

Stability Analysis of Discrete Event Systems

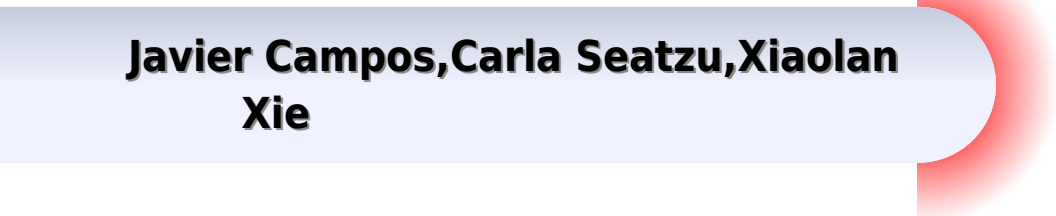
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Stability Analysis Of Discrete Event Systems

**Javier Campos, Carla Seatzu, Xiaolan
Xie**



Stability Analysis Of Discrete Event Systems:

Stability Analysis of Discrete Event Systems Kevin M. Passino, Kevin L. Burgess, 1998-03-16 An authoritative presentation on an important emerging field Discrete event systems are ubiquitous in modern society and we rely heavily on their proper design correct operation and performance Written by leaders in the field who have helped establish the foundations of the theory and applied the methods to a wide variety of applications Stability Analysis of Discrete Event Systems is useful both as a textbook homework problems are included and for researchers in systems and control theory This book includes many examples and three detailed case studies computer network load balancing manufacturing system scheduling and intelligent control systems Important features of this book include A concise introduction to discrete event system modeling including Petri nets Comprehensive treatment of stability concepts and Lyapunov analysis methods Stability of Petri models Case studies in Computer network load balancing system behavior and analysis Manufacturing system scheduler design and analysis Intelligent control system modeling and analysis for expert control systems An outlook on the role of stability concepts and analysis in intelligent autonomous and hybrid systems

Stability and Boundedness Analysis of Discrete Event Systems Kevin Lee Burgess, 1992

Qualitative Theory of Dynamical Systems Anthony Michel, Anthony Wang, Bo Hu, Zuhair Nashed, Earl Taft, 2001-01-04 Illuminates the most important results of the Lyapunov and Lagrange stability theory for a general class of dynamical systems by developing topics in a metric space independantly of equations inequalities or inclusions Applies the general theory to specific classes of equations Presents new and expanded material on the stability analysis of hybrid dynamical systems and dynamical systems with discontinuous dynamics

Discrete Control Systems Yoshifumi Okuyama, 2013-12-11 Discrete Control Systems establishes a basis for the analysis and design of discretized quantized control systems for continuous physical systems Beginning with the necessary mathematical foundations and system model descriptions the text moves on to derive a robust stability condition To keep a practical perspective on the uncertain physical systems considered most of the methods treated are carried out in the frequency domain As part of the design procedure modified Nyquist Hall and Nichols diagrams are presented and discretized proportional integral derivative control schemes are reconsidered Schemes for model reference feedback and discrete type observers are proposed Although single loop feedback systems form the core of the text some consideration is given to multiple loops and nonlinearities The robust control performance and stability of interval systems with multiple uncertainties are outlined Finally the monograph describes the relationship between feedback control and discrete event systems The nonlinear phenomena associated with practically important event driven systems are elucidated The dynamics and stability of finite state and discrete event systems are defined Academic researchers interested in the uses of discrete modelling and control of continuous systems will find Discrete Control Systems instructive The inclusion of end of chapter problems also makes the book suitable for use in self study either by professional control engineers or graduate students supplementing a more formal regimen of learning

Discrete Event Simulations Aitor Goti, 2010-08-18 Considered by many authors as a technique for modelling stochastic dynamic and discretely evolving systems this technique has gained widespread acceptance among the practitioners who want to represent and improve complex systems Since DES is a technique applied in incredibly different areas this book reflects many different points of view about DES thus all authors describe how it is understood and applied within their context of work providing an extensive understanding of what DES is It can be said that the name of the book itself reflects the plurality that these points of view represent The book embraces a number of topics covering theory methods and applications to a wide range of sectors and problem areas that have been categorised into five groups As well as the previously explained variety of points of view concerning DES there is one additional thing to remark about this book its richness when talking about actual data or actual data based analysis When most academic areas are lacking application cases roughly the half part of the chapters included in this book deal with actual problems or at least are based on actual data Thus the editor firmly believes that this book will be interesting for both beginners and practitioners in the area of DES

Formal Methods in Manufacturing Javier Campos, Carla Seatzu, Xiaolan Xie, 2018-09-03 Illustrated with real life manufacturing examples Formal Methods in Manufacturing provides state of the art solutions to common problems in manufacturing systems Assuming some knowledge of discrete event systems theory the book first delivers a detailed introduction to the most important formalisms used for the modeling analysis and control of manufacturing systems including Petri nets automata and max plus algebra explaining the advantages of each formal method It then employs the different formalisms to solve specific problems taken from today s industrial world such as modeling and simulation supervisory control including deadlock prevention in a distributed and or decentralized environment performance evaluation including scheduling and optimization fault diagnosis and diagnosability analysis and reconfiguration Containing chapters written by leading experts in their respective fields Formal Methods in Manufacturing helps researchers and application engineers handle fundamental principles and deal with typical quality goals in the design and operation of manufacturing systems

Large Scale Systems 2004 Masao Ikeda, Yuzo Ohta, 2005-12-28 *Advances in Statistical Control, Algebraic Systems Theory, and Dynamic Systems Characteristics* Chang-Hee Won, Cheryl B. Schrader, Anthony N. Michel, 2010-07-08 Life has many surprises One of the best surprises is meeting a caring mentor an encouraging collaborator or an enthusiastic friend This volume is a tribute to Professor Michael K Sain who is such a teacher colleague and friend On the beautiful fall day of October 27 2007 friends families colleagues and former students gathered at a workshop held in Notre Dame Indiana This workshop brought together many people whose lives have been touched by Mike to celebrate his milestone 70th birthday and to congratulate him on his contributions in the fields of systems controls and control Mike was born on March 22 1937 in St Louis Missouri After obtaining his B S E E and M S E E at St Louis University he went on to study at the University of Illinois at Urbana Champaign for his doctoral degree With his Ph D degree complete he came to the University of Notre Dame in 1965 as an assistant professor He

became an associate professor in 1968 a full professor in 1972 and the Frank M Freimann Chair in Electrical Engineering in 1982 He has remained at and loved the University of Notre Dame for over 40 years Mike also held a number of consulting jobs throughout his career Most notably he consulted with the Energy Controls Division of Allied Bendix Aerospace from 1976 to 1988 and the North American Operations branch of the Research and Development Laboratory of General Motors Corporation for a decade 1984 1994 The Control Systems Handbook William S. Levine, 2018-10-03 At publication The Control Handbook immediately became the definitive resource that engineers working with modern control systems required Among its many accolades that first edition was cited by the AAP as the Best Engineering Handbook of 1996 Now 15 years later William Levine has once again compiled the most comprehensive and authoritative resource on control engineering He has fully reorganized the text to reflect the technical advances achieved since the last edition and has expanded its contents to include the multidisciplinary perspective that is making control engineering a critical component in so many fields Now expanded from one to three volumes The Control Handbook Second Edition organizes cutting edge contributions from more than 200 leading experts The third volume Control System Advanced Methods includes design and analysis methods for MIMO linear and LTI systems Kalman filters and observers hybrid systems and nonlinear systems It also covers advanced considerations regarding Stability Adaptive controls System identification Stochastic control Control of distributed parameter systems Networks and networked controls As with the first edition the new edition not only stands as a record of accomplishment in control engineering but provides researchers with the means to make further advances Progressively organized the first two volumes in the set include Control System Fundamentals Control System Applications **Discrete Event Systems 2004 (WODES'04)** Janan Zaytoon, 2005-12-22 Approx 484 pages

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