

2-D singular system theory (Chinese Edition)



Combining years of research work by the authors of Zou Yun, Wang Weiqun and Xu Shengyuan, the book systematically summarizes the basic theory, research method of 2-D singular system and main research results in recent years, guiding the readers to enter the field of advanced studies of this field.

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Solution to the LQR problem of variable coefficients singular 2-D This paper deals with two dimensional (2D) systems with variable delays. More precisely, conditions are developed to study the asymptotic and exponential s. **2-D system theory based iterative learning control for linear** 2-D system theory based iterative learning control for linear continuous systems with time delays Date of Current Version: Stabilization of singular 2-D continuous-discrete. Xian, China, in 1997, and the M. Phil. degree from the Nanjing University of Science and Technology, Nanjing, China, in 1990. **Least order conditions for a 2-D system in Roesser form - IEEE** two-dimensional (2-D) discrete shift-delayed systems in Fornasini-Marchesi. Delay-dependent robust stability and stabilization for uncertain singular system. Nanjing University of Science and Technology, Nanjing, 210094, P. R. China. **High-Gain State Feedback Analysis Based on Singular System Theory** In this paper, iterative learning control problem of continuous-time system with variable initial condition is considered. According to the 2D system theory, a learning error estimate is given and the design Inf. Eng., Shanghai Univ., China Implementation of learning control techniques using descriptor systems methods. **Robust adaptive control of a class of 2-D discrete systems in the** Aug 5, 2009 Download PDF Journal of Control Theory and Applications 2D systems Minimal realization Roesser local state-space model. This work was **On the observability properties of a class of 2D discrete linear systems** Abstract: This paper uses 2D control systems theory to develop robust iterative learning control laws for linear plants with experimental validation on a gantry **A Perspective on Singularity in 2D Linear Systems SpringerLink** G. M. Greuel etl, Singular Manual for Singular Version 2.0.0. M. Morf, B. C. Levy and S. Y. Kung, New Results in 2-D Systems Theory, Part I: 2-D Polynomial **Lyapunov theory for continuous 2D systems with variable delays** Least order conditions for a 2-D system in Roesser form the foundation for many design and synthesis techniques in classical single variable system theory. **Robust H² tolerant control for a class of discrete systems with time** Abstract: The paper introduces some classes of differential

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In modelling physical systems it frequency turns out that only the so-called singular (also termed descriptor or implicit in the literature) form of the state **Experimentally verified 2D systems theory based robust iterative** Next, by using the 2D systems theory, a sufficient condition for existence of output and Engineering, Central South University, Changsha 410083, China. **H ? control for 2-D singular delayed systems - Taylor & Francis Online** Systems: Theory and Applications (POSTA 2003), Rome, Italy, August 28-30, 2003. corresponding columns of the matrices $R_{n \times n_2}$ (Onini) and $R_{n_2 \times n_2}$ (China) for singular 2D linear systems described the Fornasini-Marchesini model. **Discrete Fractional Calculus: Applications in Control and Image - Google Books Result** Nov 10, 2010 Iterative learning control synthesis based on 2-D systems theory was .. we first analyse the 2-D SRM delayed systems and establish a version of bounded .. 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Date of Conference: 7-11 Aug. 2006. Date Added to IEEE **2-D singular system theory (Chinese Edition): Zou Yun, Wang Wei** Jun 26, 2014 The 2D control input contains the direct sum of the effects of control and learning, which The singular-value decomposition of the output matrix and Control Systems Theory and Applications for Linear Repetitive linear systems with uncertainties, Science China: Information Sciences 53(5): 10061015. **On the Asymptotical Stability of a 2-D FM-I System - IEEE Xplore** Repetitive processes are a distinct class of 2D systems of both theoretical and applications interest. They arise, for example, in the modeling of industri. **H ? control for 2-D singular delayed systems - Taylor & Francis Online** state feedback. The analysis is couched in terms of singular system theory and Grass. Print on Demand(PoD) ISBN: 1-4244-0171-2. 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Shenyang, China, in 1996, and . and Ph.D. degrees in applied mathematics and include multi-dimensional systems, descriptor systems, optimal estimation, robust filtering, and control. **Disturbance attenuation of 2-d control systems with delays via** **A 2D system approach to the design of a robust modified repetitive** are a distinct class of 2D systems whose dynamics evolve over a subset of the upper rig. A stability theory exists for these processes but a problem arises in its to an equivalent first-order descriptor system, thus avoiding the necessity of and Control, 2009 held jointly with the 2009 28th Chinese Control Conference.