Introduction to Linear Systems and Stability

3   Linear Systems

We will study linear systems of the form

$$y'(t) = A(t)y(t) + B(t) \tag{3.3.1}$$

where $B(t), y(t) \in \mathbb{R}^n$, A is $n \times n$. For instance, note that we can always write an nth order linear equation

$$z^{(n)} + \alpha_1(t)z^{(n-1)}(t) + \cdots + \alpha_n(t)z(t) = b(t) \tag{3.3.2}$$

in the form of (3.3.1). Indeed if we define

$$y = \begin{pmatrix} y_1 \\ y_2 \\ \vdots \\ y_n \end{pmatrix} = \begin{pmatrix} z \\ z^{(1)} \\ \vdots \\ z^{(n-1)} \end{pmatrix} \tag{3.3.3}$$

then

$$y'(t) = \begin{pmatrix} 0 & 1 & 0 & \cdots & 0 \\ 0 & 0 & 1 & \cdots & 0 \\ \vdots & \vdots & \ddots & \ddots & \vdots \\ -\alpha_n(t) & & & \cdots & -\alpha_1(t) \end{pmatrix} y + \begin{pmatrix} 0 \\ 0 \\ \vdots \\ b(t) \end{pmatrix}$$

$$= A(t)y + B(t)$$

More generally, we will study the case

$$y'(t) = A(t)y(t) + B(t)$$

(hereafter referred to as (**LNH**)) where $A(t)$ is any $n \times n$ matrix whose entries are functions and $B(t)$ is a general $n \times 1$ vector function:

$$A(t) = \begin{pmatrix} a_{11}(t) & \cdots & a_{1n}(t) \\ a_{21}(t) & \cdots & a_{2n}(t) \\ \vdots & \ddots & \vdots \\ a_{n1}(t) & \cdots & a_{nn}(t) \end{pmatrix}, \quad B(t) = \begin{pmatrix} b_1(t) \\ b_2(t) \\ \vdots \\ b_n(t) \end{pmatrix}$$

Stability Of Linear Systems

Christopher John Harris

Stability Of Linear Systems:

Stability of Linear Systems: Some Aspects of Kinematic Similarity Harris,1980-10-02 Stability of Linear Systems Some Aspects of Kinematic Similarity **Internal and External Stabilization of Linear Systems with Constraints** Ali Saberi,Anton A. Stoorvogel,Peddapullaiah Sannuti,2012-06-21 Unifying two decades of research this book is the first to establish a comprehensive foundation for a systematic analysis and design of linear systems with general state and input constraints For such systems which can be used as models for most nonlinear systems the issues of stability controller design additonal constraints and satisfactory performance are addressed The book is an excellent reference for practicing engineers graduate students and researchers in control systems theory and design It may also serve as an advanced graduate text for a course or a seminar in nonlinear control systems theory and design in applied mathematics or engineering departments Minimal prerequisites include a first graduate course in state space methods as well as a first course in control systems design **Stability of Linear Systems** Dinesh J. Vakharia,1969 **Stability Techniques for Continuous Linear Systems** Allan M. Krall,1967 **Stability and Performance of Control Systems with Actuator Saturation** Yuanlong Li,Zongli Lin,2017-11-28 This monograph investigates the stability and performance of control systems subject to actuator saturation It presents new results obtained by both improving the treatment of the saturation function and constructing new Lyapunov functions In particular two improved treatments of the saturation function are described that exploit the intricate structural properties of its traditional convex hull representation The authors apply these treatments to the estimation of the domain of attraction and the finite gain L2 performance by using the quadratic Lyapunov function and the composite quadratic Lyapunov function Additionally an algebraic computation method is given for the exact determination of the maximal contractively invariant ellipsoid a level set of a quadratic Lyapunov function The authors conclude with a look at some of the problems that can be solved by the methods developed and described throughout the book Numerous step by step descriptions examples and simulations are provided to illustrate the effectiveness of their results Stability and Performance of Control Systems with Actuator Saturation will be an invaluable reference for graduate students researchers and practitioners in control engineering and applied mathematics Dichotomies and Stability in Nonautonomous Linear Systems Yu. A. Mitropolsky,A.M. Samoilenko,V.L. Kulik,2002-10-10 Linear nonautonomous equations arise as mathematical models in mechanics chemistry and biology The investigation of bounded solutions to systems of differential equations involves some important and challenging problems of perturbation theory for invariant toroidal manifolds This monograph is a detailed study of the application of Lyapunov func **Linear Systems** Panos J. Antsaklis,Anthony N. Michel,2006-11-24 There are three words that characterize this work thoroughness completeness and clarity The authors are congratulated for taking the time to write an excellent linear systems textbook IEEE Transactions on Automatic Control Linear systems theory plays a broad and fundamental role in electrical mechanical chemical and aerospace engineering communications and signal

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space methods and optimal control theory we equip students with the skills necessary to tackle cutting edge research and industry challenges Whether preparing for advanced coursework or entering the workforce Linear Systems Stability and Control provides the knowledge and skills needed to analyze design and optimize linear systems in diverse engineering applications   *Stability Analysis of Nonlinear Systems* V. Lakshmikantham,S. Leela,Anatoliĭ Andreevich Martyni☐u☐k,1988-11-29 Investigates stability theory in terms of two different measures treats the theory of a variety of inequalities and demonstrates manifestations of the general Lyapunov method Also covers the importance of utilizing different forms of nonlinear variation of parametric formulae constructive method   **Stability and Control of Nonlinear Time-varying Systems** Shuli Guo,Lina Han,2018-04-12 This book presents special systems derived from industrial models including the complex saturation nonlinear functions and the delay nonlinear functions It also presents typical methods such as the classical Liapunov and Integral Inequalities methods Providing constructive qualitative and stability conditions for linear systems with saturated inputs in both global and local contexts it offers practitioners more concise model systems for modern saturation nonlinear techniques which have the potential for future applications This book is a valuable guide for researchers and graduate students in the fields of mathematics control and engineering   **Stability of Linear Systems with Time Delay** Stanford University. Division of Engineering Mechanics,Yasutada Kashiwagi,1965   Stability and Stabilization of Linear Systems with Saturating Actuators Sophie Tarbouriech,Germain Garcia,João Manoel Gomes da Silva Jr.,Isabelle Queinnec,2014-08-31 This monograph details basic concepts and tools fundamental for the analysis and synthesis of linear systems subject to actuator saturation and developments in recent research The authors use a state space approach and focus on stability analysis and the synthesis of stabilizing control laws in both local and global contexts Different methods of modeling the saturation and behavior of the nonlinear closed loop system are given special attention Various kinds of Lyapunov functions are considered to present different stability conditions Results arising from uncertain systems and treating performance in the presence of saturation are given The text proposes methods and algorithms based on the use of linear programming and linear matrix inequalities for computing estimates of the basin of attraction and for designing control systems accounting for the control bounds and the possibility of saturation They can be easily implemented with mathematical software packages   *Stability and Control of Linear Systems* Andrea Bacciotti,2018-11-02 This advanced textbook introduces the main concepts and advances in systems and control theory and highlights the importance of geometric ideas in the context of possible extensions to the more recent developments in nonlinear systems theory Although inspired by engineering applications the content is presented within a strong theoretical framework and with a solid mathematical background and the reference models are always finite dimensional time invariant multivariable linear systems The book focuses on the time domain approach but also considers the frequency domain approach discussing the relationship between the two approaches especially for single input single output systems It includes topics not usually addressed in

similar books such as a comparison between the frequency domain and the time domain approaches bounded input bounded output stability including a characterization in terms of canonical decomposition and static output feedback stabilization for which a simple and original criterion in terms of generalized inverse matrices is proposed The book is an ideal learning resource for graduate students of control theory and automatic control courses in engineering and mathematics as well as a reference or self study guide for engineers and applied mathematicians **The Determination of a Stability Indicative Function for Linear Systems with Multiple Delays** John D. Shaughnessy,Yasutada Kashiwagi,1969 A theoretical study is made of the stability of a class of linear differential difference equations with multiple delays A direct method for determining the exact stability boundaries for homogeneous linear differential difference equations with constant coefficients and constant delays is formulated This formulation results in a stability indicative function depending on a single parameter which determines the number of roots of the transcendental characteristic equation that have positive real parts It is proved that the system is stable if and only if this function has a value of zero A second order system with delays in the velocity and position feedback terms is considered as an example and the stability regions for this system are determined for a range of delays and coefficients It is observed that introduction of a delay has a definite destabilizing effect on the system and introduction of a second delay has a compounding effect to further reduce stability However this example clearly illustrates that certain combinations of delays can stabilize an unstable system This phenomenon is discussed from a theoretical point of view **Stability and Relative Stability of Linear Systems with Many Constant Time Delays** Larry Keith Barker,1976 *A Survey of the Theory of Stability in Linear Systems* Gordon Bruce Fiddes,1958 Applied Mechanics Reviews ,1978 **Scientific and Technical Aerospace Reports** ,1967

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