

- 2.1 Consider the memoryless system with characteristics shown in Fig 2.19, in which u denotes the input and y the output. Which of them is a linear system? Is it possible to introduce a new output so that the system in Fig 2.19(b) is linear?

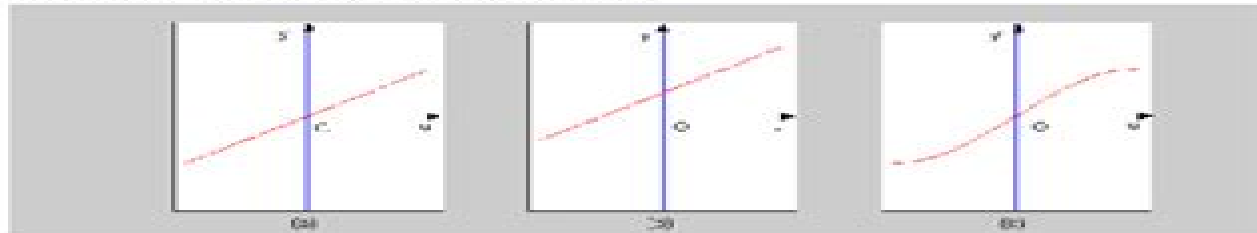


Figure 2.19

Translation: 考虑具有图 2.19 中表示的特性的无记忆系统。其中 u 表示输入， y 表示输出。下面哪一个为线性系统？可以找到一个新的输出，使得图 2.19(b) 中的系统是线性的吗？

Answer: The input-output relation in Fig 2.1(a) can be described as:

$$y = a * u$$

Here a is a constant. It is a memoryless system. Easy to testify that it is a linear system. The input-output relation in Fig 2.1(b) can be described as:

$$y = a * u + b$$

Here a and b are all constants. Testify whether it has the property of additivity. Let:

$$y_1 = a * u_1 + b$$

$$y_2 = a * u_2 + b$$

then:

$$(y_1 + y_2) = a * (u_1 + u_2) + 2 * b$$

So it does not has the property of additivity, therefore, is not a linear system. But we can introduce a new output so that it is linear. Let:

$$z = y - b$$

$$z = a * u$$

z is the new output introduced. Easy to testify that it is a linear system.

The input-output relation in Fig 2.1(c) can be described as:

$$y = a(u) * u$$

$a(u)$ is a function of input u . Choose two different input, get the outputs:

$$y_1 = a_1 * u_1$$

Linear System Theory Chen Solution

M. Gopal



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Solutions Manual for "Linear System Theory and Design, Third Edition" Chi-Tsong Chen, 1998-08-01 This Solutions Manual is designed to accompany Linear System Theory and Design Third Edition by C T Chen and includes fully worked out solutions to problems in the main text It is available free to adopters of the text *Modern Control System Theory* M. Gopal, 1993 About the book The book provides an integrated treatment of continuous time and discrete time systems for two courses at postgraduate level or one course at undergraduate and one course at postgraduate level It covers mainly two areas of modern control theory namely system theory and multivariable and optimal control The coverage of the former is quite exhaustive while that of latter is adequate with significant provision of the necessary topics that enables a research student to comprehend various technical papers The stress is on interdisciplinary nature of the subject Practical control problems from various engineering disciplines have been drawn to illustrate the potential concepts Most of the theoretical results have been presented in a manner suitable for digital computer programming along with the necessary algorithms for numerical computations *Lyapunov Matrix Equation in System Stability and Control* Zoran Gajic, Muhammad Tahir Javed Qureshi, 2008-01-01 This comprehensive treatment provides solutions to many engineering and mathematical problems related to the Lyapunov matrix equation with self contained chapters for easy reference The authors offer a wide variety of techniques for solving and analyzing the algebraic differential and difference Lyapunov matrix equations of continuous time and discrete time systems 1995 edition **Linear System Theory and Design** Chi-Tsong Chen, 1984 With the advancement of technology engineers need the systems they design not only to work but to be the absolute best possible given the requirements and available tools In this environment an understanding of a system s limitations acquires added importance Without such knowledge one might unknowingly attempt to design an impossible system Thus a thorough investigation of all of a system s properties is essential In fact many design procedures have evolved from such investigations For use at the senior graduate level in courses on linear systems and multivariable system design this highly successful text is devoted to this study and the design procedures developed thereof It is not a control text per se since it does not cover performance criteria physical constraints cost optimization and sensitivity problems Chen develops major results and design procedures using simple and efficient methods Thus the presentation is not exhaustive only those concepts which are essential in the development are introduced Problem sets following each chapter help students understand and utilize the concepts and results covered *Generalized Sylvester Equations* Guang-Ren Duan, 2015-06-09 Provides One Unified Formula That Gives Solutions to Several Types of GSEs Generalized Sylvester equations GSEs are applied in many fields including applied mathematics systems and control and signal processing Generalized Sylvester Equations Unified Parametric Solutions presents a unified parametric approach for solving various types of GSEs *Matrix Riccati Equations in Control and Systems Theory* Hisham Abou-Kandil, Gerhard Freiling, Vlad Ionescu, Gerhard

Jank,2012-12-06 The aim of the book is to present the state of the art of the theory of symmetric Hermitian matrix Riccati equations and to contribute to the development of the theory of non symmetric Riccati equations as well as to certain classes of coupled and generalized Riccati equations occurring in differential games and stochastic control The volume offers a complete treatment of generalized and coupled Riccati equations It deals with differential discrete time algebraic or periodic symmetric and non symmetric equations with special emphasis on those equations appearing in control and systems theory Extensions to Riccati theory allow to tackle robust control problems in a unified approach The book is intended to make available classical and recent results to engineers and mathematicians alike It is accessible to graduate students in mathematics applied mathematics control engineering physics or economics Researchers working in any of the fields where Riccati equations are used can find the main results with the proper mathematical background *Local Solutions of the Dynamic Programming Equations and the Hamilton Jacobi Bellman PDE* Carmeliza Luna Navasca,2002

Integro-Differential Equations Mouffak Benchohra,Abdelkrim Salim,Yong Zhou,2024-08-19 This book delves into semilinear evolution equations impulsive differential equations and integro differential equations with different types of delay The main objective is to investigate the existence of solutions and explore their approximate controllability complete controllability and attractivity The study involves boundary conditions nonlocal conditions and impulsive conditions The analysis presented in this book goes beyond traditional solutions and encompasses the study of solutions that are asymptotically almost automorphic and integro differential equations with impulsive effects in both bounded and unbounded domains The book also contains applications to nuclear physics elementary particle physics chemical engineering and economics This book is intended for researchers and professionals in the field of mathematics physics and industrial engineering as well as advanced graduate students *Optical Coherence Tomography in Cardiovascular Research* Evelyn Regar,A.M.G.J. van Leeuwen,Patrick W. Serruys,2007-03-06 Given that for centuries the standard tool to understand diseases in tissues was the microscope and that its major limitation was that only excised tissue could be used recent technology now permits the examination of diseased tissue in vivo Optical coherence tomography OCT has promising potential when applied to coronary artery disease OCT has the capability to identify coronary plaque and to distinguish between plaques that are stable and unstable If the plaques are stable then OCT can direct percutaneous intervention angioplasty or stenting Optical coherence tomography is a light based imaging technology that allows for very high resolution imaging in biological tissues It has been first applied in ophthalmology where it soon became the golden standard for the assessment of epi retinal processes The unique imaging capabilities have raised the interest of researchers and clinicians in the field of cardiovascular disease since OCT offers unique possibilities to study atherosclerosis pathophysiology in vivo With over 1 1M Americans having a heart attack this year because of unstable plaque rupture OCT may have an increasingly important role in the early diagnosis of coronary artery disease This unique publication offers the reader the basic background to OCT and its role in the diagnosis

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