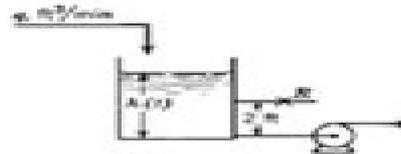# Solutions to Chapter 5 Problems

5.1 Derive the transfer function $H(s) / Q(s)$ for the liquid-level system of Fig. P5.1 when

    a) The tank level operates about the steady-state value of $h_s = 1$ ft

    b) The tank level operates about the steady-state value of $h_s = 3$ ft.

    The pump removes water at a constant rate of 10 cfm (cubic feet per minute); this rate is independent of head. The cross-sectional area of the tank is 1.0 ft^2 and the resistance R is 0.5 ft/cfm.

    a) Volume balance : $q - 10 = A\dfrac{dh}{dt}$

The tank level operates about the steady state value of $h_s = 1$ ft (at this height the only outlet from the tank is through the pump)

at steady state : $q_s - 10 = 0$

after subtraction : $q - q_s = A\dfrac{dh}{dt}$

$Q(t) = A\dfrac{dH}{dt}$

Taking the transform : $Q(s) = AsH(s)$

Rearranging : $$\boxed{\dfrac{H(s)}{Q(s)} = \dfrac{1}{As} = \dfrac{1}{s}}$$

    b) The tank level operates about the steady state value of $h_s = 3$ ft (at this height the outlets from the tank is through the pump and through the resistance)

    Volume Balance : $q - 10 - \dfrac{(h-2)}{R} = A\dfrac{dh}{dt}$

Chapter 5 Solutions Matlab

David Ross Hill

Chapter 5 Solutions Matlab:

A Guide to MATLAB Brian R. Hunt,Ronald L. Lipsman,Jonathan M. Rosenberg,Kevin R. Coombes,John E. Osborn,Garrett J. Stuck,2006-06-08 This is a short focused introduction to MATLAB a comprehensive software system for mathematical and technical computing It contains concise explanations of essential MATLAB commands as well as easily understood instructions for using MATLAB s programming features graphical capabilities simulation models and rich desktop interface Written for MATLAB 7 it can also be used with earlier and later versions of MATLAB This book teaches how to graph functions solve equations manipulate images and much more It contains explicit instructions for using MATLAB s companion software Simulink which allows graphical models to be built for dynamical systems MATLAB s new publish feature is discussed which allows mathematical computations to be combined with text and graphics to produce polished integrated interactive documents For the beginner it explains everything needed to start using MATLAB while experienced users making the switch to MATLAB 7 from an earlier version will also find much useful information here **Discrete Fourier Analysis and Wavelets** S. Allen Broughton,Kurt Bryan,2018-04-03 Delivers an appropriate mix of theory and applications to help readers understand the process and problems of image and signal analysis Maintaining a comprehensive and accessible treatment of the concepts methods and applications of signal and image data transformation this Second Edition of Discrete Fourier Analysis and Wavelets Applications to Signal and Image Processing features updated and revised coverage throughout with an emphasis on key and recent developments in the field of signal and image processing Topical coverage includes vector spaces signals and images the discrete Fourier transform the discrete cosine transform convolution and filtering windowing and localization spectrograms frames filter banks lifting schemes and wavelets Discrete Fourier Analysis and Wavelets introduces a new chapter on frames a new technology in which signals images and other data are redundantly measured This redundancy allows for more sophisticated signal analysis The new coverage also expands upon the discussion on spectrograms using a frames approach In addition the book includes a new chapter on lifting schemes for wavelets and provides a variation on the original low pass high pass filter bank approach to the design and implementation of wavelets These new chapters also include appropriate exercises and MATLAB projects for further experimentation and practice Features updated and revised content throughout continues to emphasize discrete and digital methods and utilizes MATLAB to illustrate these concepts Contains two new chapters on frames and lifting schemes which take into account crucial new advances in the field of signal and image processing Expands the discussion on spectrograms using a frames approach which is an ideal method for reconstructing signals after information has been lost or corrupted packet erasure Maintains a comprehensive treatment of linear signal processing for audio and image signals with a well balanced and accessible selection of topics that appeal to a diverse audience within mathematics and engineering Focuses on the underlying mathematics especially the concepts of finite dimensional vector spaces and matrix methods and provides a

rigorous model for signals and images based on vector spaces and linear algebra methods Supplemented with a companion website containing solution sets and software exploration support for MATLAB and SciPy Scientific Python Thoroughly class tested over the past fifteen years Discrete Fourier Analysis and Wavelets Applications to Signal and Image Processing is an appropriately self contained book ideal for a one semester course on the subject **Modern Engineering Mathematics** Abul Hasan Siddiqi,Mohamed Al-Lawati,Messaoud Boulbrachene,2017-12-22 This book is a compendium of fundamental mathematical concepts methods models and their wide range of applications in diverse fields of engineering It comprises essentially a comprehensive and contemporary coverage of those areas of mathematics which provide foundation to electronic electrical communication petroleum chemical civil mechanical biomedical software and financial engineering It gives a fairly extensive treatment of some of the recent developments in mathematics which have found very significant applications to engineering problems **Higher Order Dynamic Mode Decomposition and Its Applications** Jose Manuel Vega,Soledad Le Clainche,2020-09-22 Higher Order Dynamic Mode Decomposition and Its Applications provides detailed background theory as well as several fully explained applications from a range of industrial contexts to help readers understand and use this innovative algorithm Data driven modelling of complex systems is a rapidly evolving field which has applications in domains including engineering medical biological and physical sciences where it is providing ground breaking insights into complex systems that exhibit rich multi scale phenomena in both time and space Starting with an introductory summary of established order reduction techniques like POD DEIM Koopman and DMD this book proceeds to provide a detailed explanation of higher order DMD and to explain its advantages over other methods Technical details of how the HODMD can be applied to a range of industrial problems will help the reader decide how to use the method in the most appropriate way along with example MATLAB codes and advice on how to analyse and present results Includes instructions for the implementation of the HODMD MATLAB codes and extended discussions of the algorithm Includes descriptions of other order reduction techniques and compares their strengths and weaknesses Provides examples of applications involving complex flow fields in contexts including aerospace engineering geophysical flows and wind turbine design **Numerical Solution of Ordinary Differential Equations** Kendall Atkinson,Weimin Han,David E. Stewart,2011-10-24 A concise introduction to numerical methodsand the mathematicalframework neededto understand their performance Numerical Solution of Ordinary Differential Equationspresents a complete and easy to follow introduction to classicaltopics in the numerical solution of ordinary differentialequations The book s approach not only explains the presentedmathematics but also helps readers understand how these numericalmethods are used to solve real world problems Unifying perspectives are provided throughout the text bringingtogether and categorizing different types of problems in order tohelp readers comprehend the applications of ordinary differentialequations In addition the authors collective academic experienceensures a coherent and accessible discussion of key topics including Euler s method Taylor and Runge Kutta methods General error

analysis for multi step methods Stiff differential equations Differential algebraic equations Two point boundary value problems Volterra integral equations Each chapter features problem sets that enable readers to testand build their knowledge of the presented methods and a relatedWeb site features MATLAB programs that facilitate theexploration of numerical methods in greater depth Detailedreferences outline additional literature on both analytical andnumerical aspects of ordinary differential equations for furtherexploration of individual topics Numerical Solution of Ordinary Differential Equations isan excellent textbook for courses on the numerical solution ofdifferential equations at the upper undergraduate and beginninggraduate levels It also serves as a valuable reference forresearchers in the fields of mathematics and engineering *A Geometric Characterization of Solutions to the Algebraic Riccati Equation* Patrick Kessler,2006 <u>Fault Diagnosis and Sustainable Control of Wind Turbines</u> 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 *Optimal Control Applied to Biological Models* Suzanne Lenhart,John T. Workman,2007-05-07 From economics and business to the biological

sciences to physics and engineering professionals successfully use the powerful mathematical tool of optimal control to make management and strategy decisions Optimal Control Applied to Biological Models thoroughly develops the mathematical aspects of optimal control theory and provides insight into t *Modern Control Engineering* Katsuhiko Ogata,1997 Comprehensive treatment of the analysis and design of continuous time control systems Partial contents The Laplace transform Mathematical modelling of dynamic system Transient response analysis Root locus analysis Frequency response analysis PID controls and introduction to robust control Control systems in state space Liapunov stability analysis and quadratic optimal control **Mathematics Today** ,2002 *Analytical Efficiency Evaluation of Modular Multilevel Converter (MMC) for High Voltage Direct Current System (HVDC)* Ehtasham Mustafa,2016-02-25 Master s Thesis from the year 2014 in the subject Electrotechnology University of Peshawar University of Engineering and Technology Peshawar Pakistan course High Voltage Direct Current language English abstract Modular Multilevel Converter MMC has become the most concerned converter topology in the High Voltage Direct Current HVDC transmission system in recent times The low switching frequency low converter losses and flexible control made it most attractive topology It is important to make a research on the loss calculation method of MMC and state formulae for the losses as it is a vital step during the design stage of the MMC based HVDC system In this research work the structure of MMC based HVDC system is discussed Three sub module topologies half bridge full bridge and clamp double sub module are discussed A method based on the average and root mean square RMS values of the current passing through the sub module is discussed The conversion losses in the switching devices of the sub modules are calculated using the method A cases study is taken into consideration then with certain parameters Using these parameters a MATLAB program is developed With the help of the program the losses and efficiency curves for each switching device by taking each sub module separately are obtained respectively A comparison of the losses and efficiency of each sub module is also discussed At the end those factors which effect the losses and efficiency of the sub module are discussed along with the certain aspects for the directions of future work **Mathematics Catalog 2005** Neil Thomson,2004-10 **Experiments in Computational Matrix Algebra** David Ross Hill,1988 Process Dynamics and Control Dale E. Seborg,Thomas F. Edgar,Duncan A. Mellichamp,Francis J. Doyle, III,2016-11-16 The new 4th edition of Seborg s Process Dynamics and Control provides full topical coverage for process control courses in the chemical engineering curriculum emphasizing how process control and its related fields of process modeling and optimization are essential to the development of high value products A principal objective of this new edition is to describe modern techniques for control processes with an emphasis on complex systems necessary to the development design and operation of modern processing plants Control process instructors can cover the basic material while also having the flexibility to include advanced topics **Fundamentals of Numerical Computing** L. F. Shampine,Richard C. Allen,S. Pruess,1997 This book examines the solution of some of the most common problems of numerical computation By concentrating on one effective

algorithm for each basic task it develops the fundamental theory in a brief elementary way There are ample exercises and codes are provided to reduce the time otherwise required for programming and debugging Exposes readers to art of numerical computing as well as the science Readers need only a familiarity with either FORTRAN or C Applications are taken from a variety of disciplines including engineering physics and chemistry **Memoirs of the Scientific Sections of the Academy of the Socialist Republic of Romania** ,2012 **An Introduction to Stochastic Processes with Applications to Biology** Linda J. S. Allen,2003 Plenty of examples diagrams and figures take readers step by step through well known classical biological models to ensure complete understanding of stochastic formulation Probability Markov Chains discrete time branching processes population genetics and birth and death chains For biologists and other professionals who want a comprehensive easy to follow introduction to stochastic formulation as it pertains to biology **Engr 1110** David Kuncicky,2001-07 Syngress Study Guides guarantee comprehensive coverage of all exam objectives There are no longer any short cuts or gimmicks that allow candidates to pass Microsoft s up to date more rigorous exams The days of cramming to become a paper MCSE are over candidates must have a full grasp of all core concepts and plenty of hands on experience to become certified *Local Solutions of the Dynamic Programming Equations and the Hamilton Jacobi Bellman PDE* Carmeliza Luna Navasca,2002 *Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards* ,2005

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