CHEM-E7190/2024: Exercise 11 Part 2/2 - Luenberger observer [EXTRA]

- Solutions
 - Design a Luenberger observer for the following state-space system. Implement the code and simulate
 the system in Matlab.

$$x(k + 1) = \begin{bmatrix} 1.8097 & -0.8187 \\ 1 & 0 \end{bmatrix} x(k) + \begin{bmatrix} 0.5 \\ 0 \end{bmatrix} u(k)$$

 $y(k) = \begin{bmatrix} 0.1810 - 0.1810 \end{bmatrix} x(k) + \begin{bmatrix} 0 \end{bmatrix} u(k)$

Hint: First, check the observability of the system by computing the observability matrix. Then, select desired observer poles and use pole placement to compute the observer gain matrix L.

The dynamic equations of the stirred tank system in state-space form are the following:

$$\begin{split} \dot{x}(t) &= \begin{bmatrix} -0.5 & 0 \\ 0 & -1 \end{bmatrix} x(t) + \begin{bmatrix} 1 & 0 & 0 \\ -0.1 & 1 & 1 \end{bmatrix} w(t) \\ y(t) &= \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} x(t) + \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} w(t) \end{split}$$

Design a Luenberger observer for the system. Implement the code and simulate the system in Matlab. Hint: Since all states are measured (as indicated by the identity matrix in C), consider modifying the problem by assuming one state is not measured. Then, compute the observability matrix and design the observer accordingly.

 Calculate the observer gains for the following system when the desired characteristic equation is (λ + 9)(λ + 10)

$$\begin{split} \dot{x}(t) &= \begin{bmatrix} -1 & 1 \\ 2 & -4 \end{bmatrix} x(t) + \begin{bmatrix} 1 \\ 0 \end{bmatrix} u(t) \\ y(t) &= \begin{bmatrix} 1 & 0 \end{bmatrix} x(t) \end{split}$$

Hint: Verify observability by constructing the observability matrix. Then, set up the characteristic equation of (A - LC) and equate it to the desired characteristic equation to solve for the observer gains $L = \begin{bmatrix} I_1 \\ I_2 \end{bmatrix}$.

Sobutton

Othesen washallisty:

$$CA = \begin{bmatrix} 1 & 0 \end{bmatrix} \begin{bmatrix} -1 & 1 \\ 2 & -4 \end{bmatrix} = \begin{bmatrix} -1 & 1 \end{bmatrix}$$

 $\mathcal{O} = \begin{bmatrix} C \\ CA \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ -1 & 1 \end{bmatrix} rank(\mathcal{O}) = 2 = N_{\sigma}$

Characteristic equation

$$A - LC = \begin{bmatrix} -1 & 1 \\ 2 & -4 \end{bmatrix} - \begin{bmatrix} l_1 \\ l_2 \end{bmatrix} \begin{bmatrix} 1 & 0 \end{bmatrix} = \begin{bmatrix} -1 - l_1 & 1 \\ 2 - l_2 & -4 \end{bmatrix}$$

 $|\lambda \mathbf{I} - (A - LC)| = \begin{bmatrix} \lambda + 1 + l_1 & -1 \\ -2 + l_2 & \lambda + 4 \end{bmatrix}$
 $(\lambda + 1 + l_1)(\lambda + 4) - (-1)(-2 + l_2) = \lambda^2 + (5 + l_1)\lambda + 4(1 + l_1) + l_2 - 2$

Luenberger Chapter 3 Solutions Exercise 1

Frank L. Lewis

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Linear and Nonlinear Programming David G. Luenberger, 2003-09-30 The original edition of this book was celebrated for its coverage of the central concepts of practical optimization techniques This updated edition expands and illuminates the connection between the purely analytical character of an optimization problem expressed by properties of the necessary conditions and the behavior of algorithms used to solve a problem Incorporating modern theoretical insights this classic text Nonlinear Functional Analysis and its Applications E. Zeidler, 2013-12-11 As long as a branch of knowledge offers an abundance of problems it is full of vitality David Hilbert Over the last 15 years I have given lectures on a variety of problems in nonlinear functional analysis and its applications In doing this I have recommended to my students a number of excellent monographs devoted to specialized topics but there was no complete survey type exposition of nonlinear functional analysis making available a guick survey to the wide range of readers including mathematicians natural scientists and engineers who have only an elementary knowledge of linear functional analysis I have tried to close this gap with my five part lecture notes the first three parts of which have been published in the Teubner Texte series by Teubner Verlag Leipzig 1976 1977 and 1978 The present English edition was translated from a completely rewritten manuscript which is significantly longer than the original version in the Teubner Texte series The material is organized in the following way Part I Fixed Point Theorems Part II Monotone Operators Part III Variational Methods and Optimization Parts IV jV Applications to Mathematical Physics The exposition is guided by the following considerations a What are the supporting basic ideas and what intrinsic interrelations exist between them 3 In what relation do the basic ideas stand to the known propositions of classical analysis and linear functional analysis y What typical applications are there VII Preface viii Special emphasis is placed on motivation Eguitable Resource Allocation Hanan Luss, 2012-09-11 A unique book that specifically addresses equitable resource allocation problems with applications in communication networks manufacturing emergency services and more Resource allocation problems focus on assigning limited resources in an economically beneficial way among competing activities Solutions to such problems affect people and everyday activities with significant impact on the private and public sectors and on society at large Using diverse application areas as examples Equitable Resource Allocation Models Algorithms and Applications provides readers with great insight into a topic that is not widely known in the field Starting with an overview of the topics covered the book presents a large variety of resource allocation models with special mathematical structures and provides elegant efficient algorithms that compute optimal solutions to these models Authored by one of the leading researchers in the field Equitable Resource Allocation Is the only book that provides a comprehensive exposition of equitable resource allocation problems Presents a collection of resource allocation models with applications in communication networks transportation content distribution manufacturing emergency services and more Exhibits practical algorithms for solving a variety of resource allocation models Uses real world applications and examples to explain important concepts Includes end of chapter exercises Bringing together much of the equitable resource allocation research from the past thirty years this book is a valuable reference for anyone interested in solving diverse optimization problems

Nonlinear Programming Mokhtar S. Bazaraa, Hanif D. Sherali, C. M. Shetty, 2013-06-12 COMPREHENSIVE COVERAGE OF NONLINEAR PROGRAMMING THEORY AND ALGORITHMS THOROUGHLY REVISED AND EXPANDED Nonlinear Programming Theory and Algorithms now in an extensively updated Third Edition addresses the problem of optimizing an objective function in the presence of equality and inequality constraints Many realistic problems cannot be adequately represented as a linear program owing to the nature of the nonlinearity of the objective function and or the nonlinearity of any constraints The Third Edition begins with a general introduction to nonlinear programming with illustrative examples and guidelines for model construction Concentration on the three major parts of nonlinear programming is provided Convex analysis with discussion of topological properties of convex sets separation and support of convex sets polyhedral sets extreme points and extreme directions of polyhedral sets and linear programming Optimality conditions and duality with coverage of the nature interpretation and value of the classical Fritz John FJ and the Karush Kuhn Tucker KKT optimality conditions the interrelationships between various proposed constraint qualifications and Lagrangian duality and saddle point optimality conditions Algorithms and their convergence with a presentation of algorithms for solving both unconstrained and constrained nonlinear programming problems Important features of the Third Edition include New topics such as second interior point methods nonconvex optimization nondifferentiable optimization and more Updated discussion and new applications in each chapter Detailed numerical examples and graphical illustrations Essential coverage of modeling and formulating nonlinear programs Simple numerical problems Advanced theoretical exercises The book is a solid reference for professionals as well as a useful text for students in the fields of operations research management science industrial engineering applied mathematics and also in engineering disciplines that deal with analytical optimization techniques The logical and self contained format uniquely covers nonlinear programming techniques with a great depth of information and an abundance of valuable examples and illustrations that showcase the most current advances in nonlinear problems

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