Chapter 6: Eigenvalues and Eigenvectors

Problem 6.1 In each case, find

a. the corresponding matrix transformation which shows a counterclockwise rotation about the origin of the xy-plane. Explain in what sense this transformation is unique.

b. the corresponding matrix transformation which shows a reflection about the line $y = x$. Explain in what sense this transformation is unique.

Solution 6.1 We are looking for matrix transformations $\mathbf{x} \mapsto A\mathbf{x}$ of the form

$$x_1 = a_{11}x_1 + a_{12}x_2 = ax_1 + cx_2$$
$$x_2 = a_{21}x_1 + a_{22}x_2 = bx_1 + dx_2$$

We can determine the coefficients a, b, c, d by considering the effect of the transformation on the standard basis vectors $\mathbf{e}_1$ and $\mathbf{e}_2$. For example, if we want to find the matrix A that corresponds to a counterclockwise rotation of $\theta = 45°$, we can observe that $A\mathbf{e}_1 = \begin{bmatrix} \cos 45° \\ \sin 45° \end{bmatrix}$ and $A\mathbf{e}_2 = \begin{bmatrix} -\sin 45° \\ \cos 45° \end{bmatrix}$.

a. Without any other information, a_{11}, a_{12}, a_{21}, and a_{22} can take any values whatsoever.

Geometrically, a reflection in a line through the origin has the property that the vector $\mathbf{x}$ and its reflection $A\mathbf{x}$ are symmetric with respect to the line. In other words, the angle between $\mathbf{x}$ and the line is the same as the angle between $A\mathbf{x}$ and the line.

b. By drawing a picture, we see that $A\mathbf{e}_1 = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$ and $A\mathbf{e}_2 = \begin{bmatrix} 1 \\ 0 \end{bmatrix}$.

c. Geometrically, it is clear that a reflection about a line through the origin has the property that $A(A\mathbf{x}) = \mathbf{x}$ for all vectors $\mathbf{x}$ in $\mathbb{R}^2$. In other words, $A^2\mathbf{x} = \mathbf{x}$ for all $\mathbf{x}$ in $\mathbb{R}^2$. Therefore, $A^2 = I_2$. Algebraically, this means that $\begin{bmatrix} a & b \\ c & d \end{bmatrix}^2 = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$, which gives us the equations $a^2 + bc = 1$, $b(a+d) = 0$, $c(a+d) = 0$, and $bc + d^2 = 1$. Since $b = 0$ and $c = 1$ is a solution of this system, the reflection matrix A is not unique.

(c) Show that any reflection matrix A has the property that $A^2 = I_2$.

Solution 6.1 (c) Let $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$ be a reflection matrix. Then $A^2 = \begin{bmatrix} a^2 + bc & b(a+d) \\ c(a+d) & bc + d^2 \end{bmatrix}$.

Since A is a reflection matrix, $A\mathbf{x}$ is the reflection of $\mathbf{x}$ about a line through the origin. Therefore, $A(A\mathbf{x}) = \mathbf{x}$ for all $\mathbf{x}$ in $\mathbb{R}^2$. In other words, $A^2\mathbf{x} = \mathbf{x}$ for all $\mathbf{x}$ in $\mathbb{R}^2$. Therefore, $A^2 = I_2$.

Luenberger Chapter 8

Rachel Sandford

Luenberger Chapter 8:

Observers in Control Systems George Ellis,2002-10-16 Observers are digital algorithms that combine sensor outputs with knowledge of the system to provide results superior to traditional structures which rely wholly on sensors Observers have been used in selected industries for years but most books explain them with complex mathematics Observers in Control Systems uses intuitive discussion software experiments and supporting analysis to explain the advantages and disadvantages of observers If you are working in controls and want to improve your control systems observers could be the technology you need and this book will give you a clear thorough explanation of how they work and how to use them Control systems and devices have become the most essential part of nearly all mechanical systems machines devices and manufacturing systems throughout the world Increasingly the efficiency of production the reliability of output and increased energy savings are a direct result of the quality and deployment of the control system A modern and essential tool within the engineer s kit is the Observer which helps improve the performance and reduce the cost of these systems George Ellis is the author of the highly successful Control System Design Guide Second Edition Unlike most controls books which are written by control theorists and academics Ellis is a leading engineer designer author and lecturer working in industry directly with the users of industrial motion control systems Observers in Control Systems is written for all professional engineers and is designed to be utilized without an in depth background in control theory This is a real world book which will demonstrate how observers work and how they can improve your control system It also shows how observers operate when conditions are not ideal and teaches the reader how to quickly tune an observer in a working system Software Available online A free updated and enhanced version of the author s popular Visual ModelQ allows the reader to practice the concepts with Visual ModelQ models on a PC Based on a virtual laboratory all key topics are demonstrated with more than twenty control system models The models are written in Visual ModelQ and are available on the Internet to every reader with a PC Teaches observers and Kalman filters from an intuitive perspective Explains how to reduce control system susceptibility to noise Shows how to design an adaptive controller based on estimating parameter variation using observers Shows how to improve a control system s ability to reject disturbances Key topics are demonstrated with PC based models of control systems The models are written in both MatLab and ModelQ models are available free of charge **Mathematical Methods for Neural Network Analysis and Design** Richard M. Golden,1996 For convenience many of the proofs of the key theorems have been rewritten so that the entire book uses a relatively uniform notion Linearization of Nonlinear Control Systems Hong-Gi Lee,2022-09-02 This textbook helps graduate level student to understand easily the linearization of nonlinear control system Differential geometry is essential to understand the linearization problems of the control nonlinear systems In this book the basics of differential geometry needed in linearization are explained on the Euclidean space instead of the manifold for students who are not accustomed to differential geometry Many Lie algebra formulas used often in linearization are also

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Digital Control Systems Rolf Isermann,2013-11-11 This well known book is an introduction to the field of digital sampled data control It treats the field in depth and can be used for courses and for self study The second edition has been completely revised and expanded with new results The work now appears in two volumes with Volume 2 to be published in 1989 The volumes form a unit and take the reader systematically from fundamentals to problems of real applications The work is directed towards students of electrical and mechanical engineering computer science especially with a specialization on automation and control engineering and other fields like biology economics space mathematics and physics It is also directed to engineers and scientists concerned with solving concrete problems Robot Modeling and Control Mark W. Spong,Seth Hutchinson,M. Vidyasagar,2020-03-30 A New Edition Featuring Case Studies and Examples of the Fundamentals of Robot Kinematics Dynamics and Control In the 2nd Edition of Robot Modeling and Control students will cover the theoretical fundamentals and the latest technological advances in robot kinematics With so much advancement in technology from robotics to motion planning society can implement more powerful and dynamic algorithms than ever before This in depth reference guide educates readers in four distinct parts the first two serve as a guide to the fundamentals of robotics and motion control while the last two dive more in depth into control theory and nonlinear system analysis With the new edition readers gain access to new case studies and thoroughly researched information covering topics such as Motion planning collision avoidance trajectory optimization and control of robots Popular topics within the robotics industry and how they apply to various technologies An expanded set of examples simulations problems and case studies Open ended suggestions for students to apply the knowledge to real life situations A four part reference essential for both undergraduate and graduate students Robot Modeling and Control serves as a foundation for a solid education in robotics and motion planning **Benchmarking Economic Efficiency** Jesús T. Pastor,Juan Aparicio,José L. Zofío,2022-07-12 This book unifies and extends the definition and measurement of economic efficiency and its use as a real life benchmarking technique for actual organizations Analytically the book relies on the economic theory of duality as guiding framework Empirically it shows how the alternative models can be implemented by way of Data Envelopment Analysis An accompanying software programmed in the open source Julia language is used to solve the models The package is a self contained set of functions that can be used for individual learning and instruction The source code associated documentation and replication notebooks are available online The book discusses the concept of economic efficiency at the firm level comparing observed to optimal economic performance and its decomposition according to technical and allocative criteria Depending on the underlying technical efficiency measure economic efficiency can be decomposed multiplicatively or additively Part I of the book deals

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web mar 7 2010 programming a bcm body control modual i recently purchased a 97 firebird i have a keyless entry remote for it but i cant get into the bcm setup to program the remote i know you have to take out the radio fuse and turn the ignition on and off three times to get into the setup this does nothing

body control module repair reman services - Apr 29 2022

web a body control module bcm is a computer component in an automobile that checks regulates and operates electronic devices throughout the car typically in a car the bcm controls the power windows power mirrors air conditioning immobilizer system central locking etc the bcm communicates with other on board computers via the car s

failed body control module do not replace until you re youtube - Aug 14 2023

web jan 11 2023 how to tell body control module bcm failed and should be replaced and reprogrammed in this video i will explain the function frequent problems you may encounter and what repair is necessary

2006 08 chevy cobalt pontiac g5 tcm fix easy bcm problem youtube - May 11 2023

web may 28 2015 it goes a long way alpha u easiest fix to your power steering tcm no speedometer odometer no shift what youll need 1 4 inch nut and bolt 1 2 feet of automobile wire socket wrench still

body control module grand prix forums - Sep 03 2022

web 11 16 2011 i have a 2008 gxp i was rear ended and pushed into the car in front of me immediately after the accident my key fob no longer worked a few dash lights stopped working and my washer pump quit working the dealer ran a diagnostic check for the insurance company and said that my bcm was malfunctioning causing all the issues

bcm replacement programming success pontiac solstice - Sep 15 2023

web dec 20 2022 i posted more about that here strange bcm part number programming issues anyways i gave up on my ebay searches and bought a brand new bcm part 25910845 for an 07 solstice 160 17 ship wanted it fast to get this over with 40 core from rock auto all the bcm programming worked including the brake and crank

2004 grand prix bcm programming pontiac grand prix forums - Oct 04 2022

web dec 28 2010 so when i am in 04 and at the body section i can see the bcm inputs outputs etc but if i try to communicate with the bcm such as configuring options in the bcm as soon as i hit the key to save options i get the unable to communicate check aldl screen along with the non communication beep from the tech 2

replace bcm on 08 gtp pontiac g6 forum - Nov 05 2022

web jun 18 2010 if you had a key from the donor car and cut a blank without the transponder you would be able to reprogram the bcm yourself to match your keys other stuff like resetting the vin so your radio would work and programming it so your keyless entry and start if equipped will work require a tech ii programmer

having issues programming bcm page 2 pontiac solstice forum - Mar 09 2023

web jan 2 2023 the bcm that is being sold is for cars that do not have power windows the bcm will work in the vehicle and the power windows can be wired up externally to the bcm so in a bind it will work you would have to add 2 relays for each window at the bcm and connect the wires for the window switches to the relays

g8 wams spec bcm programming service white automotive - Aug 02 2022

web description reviews 0 description wams spec bcm programming includes the following features full drl delete both the annoying indicator on the dash and the actual drl operation turn signals and tail lamps about 10 brighter ability to turn fogs highs and lows all on at the same time really bright

business continuity management temasek polytechnic - Mar 29 2022

web the objectives of this subject is to equip students with the 1 knowledge in increasing organisational survivability and resiliency through business continuity management bcm system tools used in risk analysis framework the systematic logical sequence of actions that leads from one phase to the next phase in the bcm planning methodology