

## Chapter 2

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# Calculus of Variations and Optimal Control

Solution to Problem 2.1

The performance index is

$$\begin{aligned} J &= \int_0^2 [2x^2(t) + \dot{z}^2(t)] dt, \\ &= \int_{t_0}^{t_f} V(x(t), \dot{z}(t)) dt \end{aligned}$$

where

$$V = 2x^2(t) + \dot{z}^2(t), \quad t_0 = 0, \quad t_f = 2.$$

Using the Euler-Lagrange equation (2.3.15)

$$\begin{aligned} \left( \frac{\partial V}{\partial x} \right)_* - \frac{d}{dt} \left( \frac{\partial V}{\partial \dot{x}} \right)_* &= 0 \longrightarrow \\ 4x^*(t) - \frac{d}{dt} (2\dot{z}^*(t)) &= 0 \longrightarrow \\ \dot{z}^*(t) - 2x^*(t) &= 0. \end{aligned}$$

Solving the previous equation

$$x^*(t) = C_1 e^{\sqrt{2}t} + C_2 e^{-\sqrt{2}t}$$

# Optimal Control Systems Solution Manual

**CO Houle**



## **Optimal Control Systems Solution Manual:**

*Solutions Manual for Optimal Control Systems* Laurie Kelly, 2004-02      *Digital Control Systems* Benjamin C. Kuo, 1980

*Optimal Control Engineering with MATLAB* Rami A. Maher, 2013 For control engineers optimal control is a tool to design a primal controller which secures system stability and fulfils a certain set of specifications via the optimisation of a specific performance index In this way troublesome trial and error controller tuning procedures are avoided The next step is to assess the possibility of practical implementation and this usually leads to a need to implement some controller trade offs To this end this book aims to construct bridges between conventional parameter optimisation and the methods of optimal control theory *Optimal Control Engineering with Matlab* teaches students efficiently how to apply the well known standard optimal control theory as well as recently developed methods for the practical implementation of optimal controllers for dynamic systems In this book the author uses his experience gained over twenty five years of teaching and supervising graduate and postgraduate students in many engineering specialisations to communicate the essentials of a very important branch of control system theory to a new generation of engineering students      **Optimal Control** Brian D. O.

Anderson, 1990      *Solutions Manual for Optimal Control Theory* Suresh P. Sethi, Gerald L. Thompson, 1981-11-30

**Servomechanisms: Bulletin of Automatic and Manual Control Abstracts**, 1967      *Modern Control System Theory and Design* Stanley M. Shinnars, 1998-05-06 The definitive guide to control system design *Modern Control System Theory and Design* Second Edition offers the most comprehensive treatment of control systems available today Its unique text software combination integrates classical and modern control system theories while promoting an interactive computer based approach to design solutions The sheer volume of practical examples as well as the hundreds of illustrations of control systems from all engineering fields make this volume accessible to students and indispensable for professional engineers This fully updated Second Edition features a new chapter on modern control system design including state space design techniques Ackermann's formula for pole placement estimation robust control and the H method for control system design Other notable additions to this edition are Free MATLAB software containing problem solutions which can be retrieved from The Mathworks Inc anonymous FTP server at ftp ftp mathworks com pub books shinnars Programs and tutorials on the use of MATLAB incorporated directly into the text A complete set of working digital computer programs Reviews of commercial software packages for control system analysis An extensive set of new worked out illustrative solutions added in dedicated sections at the end of chapters Expanded end of chapter problems one third with answers to facilitate self study An updated solutions manual containing solutions to the remaining two thirds of the problems Superbly organized and easy to use *Modern Control System Theory and Design* Second Edition is an ideal textbook for introductory courses in control systems and an excellent professional reference Its interdisciplinary approach makes it invaluable for practicing engineers in electrical mechanical aeronautical chemical and nuclear engineering and related areas      **Scientific and Technical Aerospace Reports**, 1970

*Optimal Control Systems* D. Subbaram Naidu, 2018-10-03 The theory of optimal control systems has grown and flourished since the 1960s. Many texts written on varying levels of sophistication have been published on the subject. Yet even those purportedly designed for beginners in the field are often riddled with complex theorems and many treatments fail to include topics that are essential to a thorough grounding in the various aspects of and approaches to optimal control. *Optimal Control Systems* provides a comprehensive but accessible treatment of the subject with just the right degree of mathematical rigor to be complete but practical. It provides a solid bridge between traditional optimization using the calculus of variations and what is called modern optimal control. It also treats both continuous time and discrete time optimal control systems, giving students a firm grasp on both methods. Among this book's most outstanding features is a summary table that accompanies each topic or problem and includes a statement of the problem with a step-by-step solution. Students will also gain valuable experience in using industry standard MATLAB and SIMULINK software including the Control System and Symbolic Math Toolboxes. Diverse applications across fields from power engineering to medicine make a foundation in optimal control systems an essential part of an engineer's background. This clear, streamlined presentation is ideal for a graduate level course on control systems and as a quick reference for working engineers.

**Applied Optimal Control Solutions Manual**  
Bryson, 1975-01-01     **Robotics, CAD/CAM Market Place, 1985**, 1985     **Modern Control System Theory and Human Control Functions** R. W. Obermayer, F. A. Muckler, 1965     *Energy Research Abstracts*, 1977 Semiannual with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers and contractors. Includes all works deriving from DOE, other related government sponsored information and foreign nonnuclear information. Arranged under 39 categories, e.g. Biomedical sciences, basic studies, Biomedical sciences, applied studies, Health and safety and Fusion energy. Entry gives bibliographical information and abstract. Corporate author subject report number indexes     **U.S. Government Research & Development Reports**, 1967     *Scientific and Technical Books in Print*, 1972     *Dissertation Abstracts International*, 1970     **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     *NASA Contractor Report*, 1965     **International Journal of Electrical Engineering Education**, 1983     **International Aerospace Abstracts**, 1997

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