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Principle, which was named by L. S. Pontryagin. Firstly, to solve a Optimal Control problem, we have to change the constrained dynamic optimization problem into a uncon-strained problem, and the consequent function is

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A bang-bang control As we will see later in §4.4.2, an optimal control  $u(\cdot)$  is given by  $u(t) = 1$  if  $0 \leq t \leq t_1$   $u(t) = 0$  if  $t_1 < t \leq T$  for an appropriate switching time  $0 \leq t_1 \leq T$ . In other words, we should reinvest all the output (and therefore consume nothing) up until time  $t_1$ , and afterwards, we

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## ~~SOLUTIONS MANUAL: Optimal Control Theory An Introduction ...~~

This book grew out of my lecture notes for a graduate course on optimal control theory which I taught at the University of Illinois at Urbana-Champaign during the period from 2005 to 2010. While preparing the lectures, I have accumulated an entire shelf of textbooks on calculus of variations and optimal control systems.

## ~~August 9, 2011~~

Designed specifically for a one-semester course, the book begins with calculus of variations, preparing the ground for optimal control. It then gives a complete proof of the maximum principle and covers key topics such as the Hamilton-Jacobi-Bellman theory of dynamic programming and linear-quadratic optimal control.

## ~~Calculus of variations and optimal control theory : a ...~~

Textbook: D. Subbaram Naidu, Optimal Control Systems. CRC Press, ISBN: 0849308925 Course Outline: Introduction, Review of state-space concepts, Linear Algebra review, Performance measures of control systems; Numerical optimization fundamentals, (also see Optimization Notes handout) Solution of two-point boundary value problems

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Optimal control theory is a branch of mathematical optimization that deals with finding a control for a dynamical system over a period of time such that an

objective function is optimized. It has numerous applications in both science and engineering. For example, the dynamical system might be a spacecraft with controls corresponding to rocket thrusters, and the objective might be to reach the moon with minimum fuel expenditure. Or the dynamical system could be a nation's economy, with the object

## ~~Optimal control — Wikipedia~~

The paper of Hector J. Sussmann and Jan C. Willems in the IEEE Control Systems Magazine, June 1997, pp 32-44, celebrates this event as a beginning of optimal control theory. Solution (based on calculus) of Queen Dido's problem by P. D. Lax from American Mathematical Monthly, vol. 102, No. 2, February 1995, pp. 158-159

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Solutions manual (available only to teachers) Leading universities that have adopted this book include: University of Illinois at Urbana-Champaign ECE 553: Optimum Control Systems ; Georgia Institute of Technology ECE 6553: Optimal Control and Optimization ; University of Pennsylvania ESE 680: Optimal Control Theory

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