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namely calculus differential equations and numerical integration Although finding optimal solutions for these problems is a complex process involving the calculus of variations the authors carefully lay out step by step the most important theorems and concepts Numerous examples are worked to demonstrate how to apply the theories to everything from classical problems e g crossing a river in minimum time to engineering problems e g minimum fuel launch of a satellite Throughout the book use is made of the time optimal launch of a satellite into orbit as an important case study with detailed analysis of two examples launch from the Moon and launch from Earth For launching into the field of optimal solutions look no further

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Ordinary differential equations Advantages of Mathematica dealing with the Pi number The power of Mathematica working with optimal control problems Introduction to Mathematica with Applications will appeal to researchers professors and students requiring a computational tool *Analytical Solutions for Extremal Space Trajectories* Dilmurat M.

Azimov,2017-08-23 *Analytical Solutions for Extremal Space Trajectories* presents an overall treatment of the general optimal control problem in particular the Mayer s variational problem with necessary and sufficient conditions of optimality It also provides a detailed derivation of the analytical solutions of these problems for thrust arcs for the Newtonian linear central and uniform gravitational fields These solutions are then used to analytically synthesize the extremal and optimal trajectories for the design of various orbital transfer and powered descent and landing maneuvers Many numerical examples utilizing the proposed analytical synthesis of the space trajectories and comparison analyses with numerically integrated solutions are provided This book will be helpful for engineers and researchers of industrial and government organizations and is also a great resource for university faculty and graduate and undergraduate students working specializing or majoring in the fields of aerospace engineering applied celestial mechanics and guidance navigation and control technologies applied mathematics and analytical dynamics and avionics software design and development Features an analyses of Pontryagin extremals and or Pontryagin minimum in the context of space trajectory design Presents the general methodology of an analytical synthesis of the extremal and optimal trajectories for the design of various orbital transfer and powered descent and landing maneuvers Assists in developing the optimal control theory for applications in aerospace technology and space mission design

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