

# Introduction To Optimal Control Theory Undergraduate Texts In Mathematics By Jack Macki Aaron Strauss

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"Synopsis This is an introduction to optimal control theory for systems governed by vector ordinary differential equations, up to and including a proof of the Pontryagin Maximum Principle. Though the subject is accessible to any student with a sound undergraduate mathematics background. Theory and applications are integrated with examples, particularly one special example (the rocket car) which relates all the abstract ideas to an understandable setting. The authors avoid excessive generalization, focusing rather on motivation and clear, fluid explanation."

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s

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**optimal control**

May 12th, 2020 - optimal control theory is a branch of applied mathematics that deals with finding a control law 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

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