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Mathematics & Nonlinear Science) 1st edition by Berkovitz, Leonard David, Medhin, Negash G. (2012) Hardcover on Amazon.com. \*FREE\* shipping on qualifying offers.

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Optimal Control of Nonlinear Parabolic Systems: Theory: Algorithms and Applications (Chapman & Hall/CRC Pure and Applied Mathematics) 1st Edition by Pekka Neittaanmaki (Author), Dan Tiba (Author) ISBN-13: 978-0824790813. ISBN-10: 0824790812. Why is ISBN important? ISBN.

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## **Nonlinear Optimal**

Due to the work of Lev Pontryagin and Richard Bellman, optimal control theory was popularized in the 1960s. The aim of this PhD thesis is to enable engineers to find optimal control solutions for nonlinear systems in a less time-consuming and more automatic manner

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than with previous approaches.

## **Optimal Control for Nonlinear Systems**

Optimal control of nonlinear systems is one of the most active subjects in control theory. One of the main difficulties with classic optimal control theory is that, to determine optimal control for a nonlinear system, the Hamilton-Jacobi-Bellman (HJB) partial differential equations (PDEs) have to be solved Bryson & Ho, 1975.

## **Optimal control of nonlinear systems: a predictive control ...**

L. Berkovitz and N. Medhin, Nonlinear Optimal Control Theory, Chapman & Hall, CRC Press, 2012. S. Anița, V. Arnăutu, and V. Capasso, An Introduction to Optimal Control Problems in Life Sciences and Economics: From Mathematical Models to Numerical Simulation with MATLAB , Birkhäuser, 2011.

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Nonlinear optimal control theory.  
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## **Nonlinear optimal control theory (Book, 2013) [WorldCat.org]**

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I. INTRODUCTION Nonlinear stochastic



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optimal control theory,, is one of the most fundamental control theoretic frameworks with a plethora of applications in domains that span from biology, and neuroscience to vehicle and mobile robot control.

## **Stochastic Optimal Control for Nonlinear Markov Jump ...**

for optimal control of dynamics with nonlinear drift and state multiplicative noise, but not in the case of control multiplicative Gaussian or the general case of non-Gaussian excitation [13]. The main contribution of our work is the open-loop deterministic optimal control synthesis for systems

## **arXiv:2009.07154v1 [math.OC] 15 Sep 2020**

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