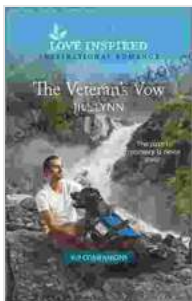


Optimal Control Applied to Biological Models: Chapman & Hall/CRC Mathematical and Computational Biology Series

Optimal Control Applied to Biological Models provides a concise to optimal control theory with particular emphasis on applications to biological models. The book covers the basic concepts of optimal control theory, including the maximum principle, Pontryagin's minimum principle, and dynamic programming. It also provides an overview of numerical methods for solving optimal control problems.



Optimal Control Applied to Biological Models (Chapman & Hall/CRC Mathematical Biology Series)

by Suzanne Lenhart

★★★★★ 5 out of 5

Language	: English
File size	: 1922 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 212 pages
Screen Reader	: Supported
Hardcover	: 274 pages
Item Weight	: 1.15 pounds
Dimensions	: 6.14 x 0.63 x 9.21 inches



The book is divided into three parts. The first part introduces the basic concepts of optimal control theory. The second part covers applications of optimal control theory to biological models, including models of population

dynamics, epidemiology, and cancer growth. The third part provides an overview of numerical methods for solving optimal control problems.

Optimal Control Applied to Biological Models is a valuable resource for researchers and students in the fields of biology, mathematics, and engineering. The book provides a concise to optimal control theory and its applications to biological models, and it also provides an overview of numerical methods for solving optimal control problems.

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2. Basic Concepts of Optimal Control Theory
3. Applications of Optimal Control Theory to Biological Models
4. Numerical Methods for Solving Optimal Control Problems

Author

The author of Optimal Control Applied to Biological Models is Dr. David J. D'Argenio. Dr. D'Argenio is a professor of mathematics at the University of California, Santa Barbara. He is a leading researcher in the field of optimal control theory and its applications to biological models.

Reviews

Optimal Control Applied to Biological Models has received positive reviews from researchers and students in the fields of biology, mathematics, and engineering. The book has been praised for its clear and concise to optimal control theory and its applications to biological models, as well as its overview of numerical methods for solving optimal control problems.

Here are some excerpts from reviews of the book:

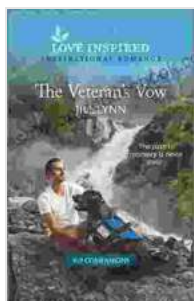
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“ "The book is well-written and easy to follow. The author does a good job of explaining the basic concepts of optimal control theory and its applications to biological models. The book also provides a good overview of numerical methods for solving optimal control problems." ”

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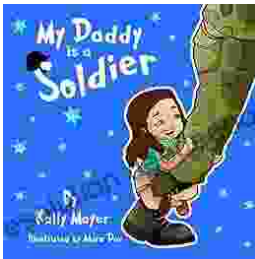
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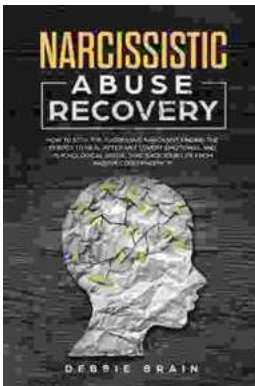
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