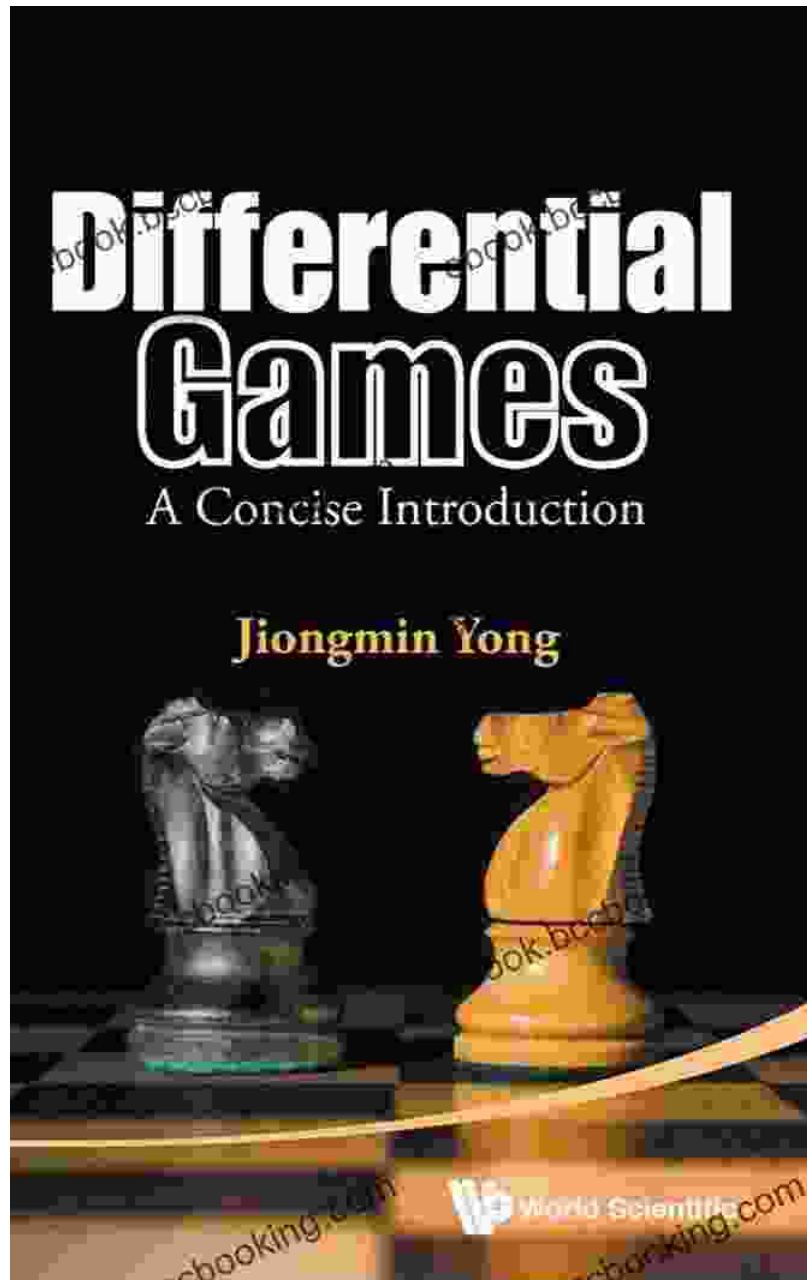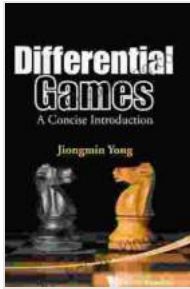# Differential Games: A Comprehensive Guide to the Fundamentals

Differential games is a rapidly growing field that has found applications in a wide range of disciplines, including economics, engineering, and biology. The book "Differential Games Concise " provides a comprehensive

overview of the fundamental concepts and techniques of this field. Written by leading experts in the field, this book is an essential resource for researchers, students, and practitioners who want to learn more about differential games.

Differential Games: A Concise Introduction

★★★★★ 5 out of 5

Language	: English
File size	: 30976 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 336 pages

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Overview of Differential Games

Differential games are dynamic games in which the players' strategies are continuous functions of time. This makes them more complex than static games, in which the players' strategies are fixed in advance. Differential games also differ from cooperative games, in which the players work together to achieve a common goal. In differential games, the players are competing against each other, and each player's goal is to maximize their own payoff.

Differential games can be used to model a wide range of real-world situations, including:

* The competition between two firms in a market * The pursuit of an evader by a pursuer * The spread of a disease through a population

Fundamental Concepts of Differential Games

The book "Differential Games Concise " covers the fundamental concepts of differential games, including:

* The definition of a differential game * The different types of differential games * The solution concepts for differential games * The applications of differential games

The book also includes a number of helpful examples and exercises to help readers understand the concepts of differential games.

Techniques for Solving Differential Games

The book "Differential Games Concise " also introduces a number of techniques for solving differential games. These techniques include:

* The method of characteristics * The dynamic programming approach * The Hamilton-Jacobi-Bellman equation

The book also discusses the limitations of these techniques and provides guidance on how to choose the best technique for a particular differential game.

Applications of Differential Games

Differential games have a wide range of applications in a variety of disciplines. Some of the most common applications include:

* Economics: Differential games can be used to model the competition between firms in a market. * Engineering: Differential games can be used

to design control systems for autonomous vehicles. * Biology: Differential games can be used to model the spread of diseases through a population.

The book "Differential Games Concise " provides an overview of these applications and discusses how differential games can be used to solve real-world problems.

The book "Differential Games Concise " is a comprehensive overview of the fundamental concepts and techniques of differential games. Written by leading experts in the field, this book is an essential resource for researchers, students, and practitioners who want to learn more about differential games.
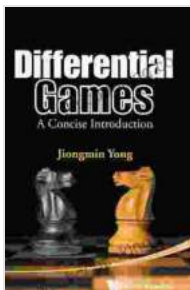
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