

## Differential Games A Mathematical Theory With Applications To Warfare And Pursuit Control And Optimization Rufus Isaacs

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Differential Games: A Mathematical Theory with Applications to Warfare and Pursuit, Control and Optimization (Dover Books on Mathematics) Paperback – January 20, 1999 by Rufus Isaacs (Author)

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In game theory, differential games are a group of problems related to the modeling and analysis of conflict in the context of a dynamical system.

Differential game - Wikipedia

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Game theory - Wikipedia

One of the definitiive works in game theory, this fascinating volume offers an original look at methods of obtaining solutions for conflict situations. Combining the principles of game theory, the calculus of variations, and control theory, the author considers and solves an amazing array of problems: military, pursuit and evasion, games of firing and maneuver, athletic contests, and many other ...

Differential Games: A Mathematical Theory with Applications to Warfare and Pursuit, Control and Optimization

Differential games A branch of the mathematical theory of control (cf. Automatic control theory), the subject of which is control in conflict situations.

Differential games - Encyclopedia of Mathematics

Dover Books on Mathematics Ser.: Differential Games : A Mathematical Theory with Applications to Warfare and Pursuit, Control and Optimization by Rufus Isaacs (1999, Trade Paperback, New Edition) The lowest-priced brand-new, unused, unopened, undamaged item in its original packaging (where packaging is applicable).

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This volume lays the mathematical foundations for the theory of differential games, developing a rigorous mathematical framework with existence theorems. It begins with a precise definition of a differential game and advances to considerations of games of fixed duration, games of pursuit and evasion, the computation of saddle points, games of survival, and games with restricted phase coordinates.

Differential Games - Dover

Book: R. Isaacs, Differential Games: A mathematical theory with applications to warfare and pursuit, control and optimization, 1965. Later the theory was developed by many contributors including A. Merz and J. Breakwell. More recent contributions by T. Basar and coworkers. Book: Basar and Olsder, Dynamic Noncooperative Game Theory, 1982.

16.410/413 Principles of Autonomy and Decision Making

Differential Games: A Mathematical Theory with Applications to Warfare and Pursuit, Control and Optimization. By Rufus Isaacs, New York and London, Wiley, 1965. xxii,384p. 9?. 113s.

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Differential Games: A Mathematical Theory with Applications to Warfare and Pursuit, Control and Optimization

One of the definitive works in game theory, this volume takes an original and expert look at conflict solutions. Drawing on game theory, the calculus of variations, and control theory, the author solves an amazing array of problems relating to military situations, pursuit and evasion tactics, athletic contests, and many more. Clearly detailed examples; numerous calculations. 1965 edition.

Graduate-level text surveys games of fixed duration, games of pursuit and evasion, the computation of saddle points, games of survival, games with restricted phase coordinates, and N-person games. 1971 edition.

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A comprehensive, self-contained survey of the theory and applications of differential games, one of the most commonly used tools for modelling and analysing economics and management problems which are characterised by both multiperiod and strategic decision making. Although no prior knowledge of game theory is required, a basic knowledge of linear algebra, ordinary differential equations, mathematical programming and probability theory is necessary. Part One presents the theory of differential games, starting with the basic concepts of game theory and going on to cover control theoretic models, Markovian equilibria with simultaneous play, differential games with hierarchical play, trigger strategy equilibria, differential games with special structures, and stochastic differential games. Part Two offers applications to capital accumulation games, industrial organization and oligopoly games, marketing, resources and environmental economics.

Mathematical economics and game theory approached with the fundamental mathematical toolbox of nonlinear functional analysis are the central themes of this text. Both optimization and equilibrium theories are covered in full detail. The book's central application is the fundamental economic problem of allocating scarce resources among competing agents, which leads to considerations of the interrelated applications in game theory and the theory of optimization.

Mathematicians, mathematical economists, and operations research specialists will find that it provides a solid foundation in nonlinear functional analysis. This text begins by developing linear and convex analysis in the context of optimization theory. The treatment includes results on the existence and stability of solutions to optimization problems as well as an introduction to duality theory. The second part explores a number of topics in game theory and mathematical economics, including two-person games, which provide the framework to study theorems of nonlinear analysis. The text concludes with an introduction to non-linear analysis and optimal control theory, including an array of fixed point and subjectivity theorems that offer powerful tools in proving existence theorems.

The subject theory is important in finance, economics, investment strategies, health sciences, environment, industrial engineering, etc.

This text offers an exceptionally clear presentation of the mathematical theory of games of strategy and its applications to many fields including economics, military, business, and operations research.

DIVMany illuminating and instructive examples of the applications of game theoretic models to problems in political science appear in this volume, which requires minimal mathematical background. 1975 edition. 24 figures. /div

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