

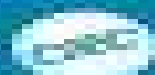
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Mathematical Puzzles For Beginners 2nd Edition

Robin Elise Weiss



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examples of games in action There are also psychological games played on a personal level where the weapons are words and the payoffs are good or bad feelings Berne 1964 There are biological games the competition between species where natural selection can be modeled as a game played between genes Smith 1982 There is a connection between game theory and the mathematical areas of logic and computer science One may view theoretical statistics as a two person game in which nature takes the role of one of the players as in Blackwell and Girshick 1954 and Ferguson 1968 Games are characterized by a number of players or decision makers who interact possibly threaten each other and form coalitions take actions under uncertain conditions and finally receive some benefit or reward or possibly some punishment or monetary loss In this text we present various mathematical models of games and study the phenomena that arise In some cases we will be able to suggest what courses of action should be taken by the players In others we hope simply to be able to understand what is happening in order to make better predictions about the future

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