

FREE PRISONERS DILEMMA: JOHN VON NEUMANN, GAME THEORY AND THE PUZZLE OF THE BOMB PDF



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Skip to main content. Find your next book: Search. By William Poundstone. Description Should you watch public television without pledging? Exceed the posted speed limit? Hop a subway Prisoners Dilemma: John Von Neumann without paying? These questions illustrate the so-called "prisoner's dilemma", a social puzzle that we all face Game Theory and the Puzzle of the Bomb day. Though the answers may seem simple, their

profound implications make the prisoner's dilemma one of the great unifying concepts of science.

Watching players bluff in a poker game inspired John von Neumann—father of the modern computer and one of the sharpest minds of the century—to construct game theory, a mathematical study of conflict and deception. Game theory was readily embraced at the RAND Corporation, the archetypical think tank charged with formulating military strategy for the atomic age, and in two RAND scientists made a momentous discovery. Called the "prisoner's dilemma," Game Theory and the Puzzle of the Bomb is a disturbing and mind-bending game where two or more people may betray the common good for individual gain.

Introduced shortly after the Soviet Union acquired the atomic bomb, the prisoner's dilemma quickly became a popular allegory of the nuclear arms race. Intellectuals such as von Neumann and Bertrand Russell joined military and political leaders in rallying to the "preventive war" movement, which advocated a nuclear first strike against the Soviet Union.

Though the Truman administration rejected preventive war the United States entered into an arms race with the Soviets and game theory developed into a controversial tool of public policy—alternately accused of justifying arms races and touted as the only hope of Prisoners Dilemma: John Von Neumann them. A masterful work of science writing, Prisoner's Dilemma weaves together a biography of the brilliant and tragic von Neumann, a history of pivotal phases of the cold war, and an investigation of game theory's far-reaching influence on public policy today.

Most important, Prisoner's Dilemma is the incisive story of a revolutionary idea that has been hailed as a landmark of twentieth-century thought.

He is the author of The Recursive Universe about information theory and physics, and Labyrinths of Reason an exploration of paradox in science. He lives in Los Angeles.

Praise For... "Both a fascinating biography of von Neumann, the Hungarian exile whose mathematical theories were building blocks for the A-bomb and the digital computer, and a brilliant social history of game theory and its role in the Cold War and nuclear arms race.

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