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JOHN VON NEUMANN
AND NORBERT WIENER

From Mathematics to the
Technologies of Life and Death

Steve J. Heims

$$\varphi = \varphi_0 + \int \varphi_1(\omega) dX(\xi, \omega) +$$

$$O(x) \sim \sum_{n=0}^{\infty} G_n(K_n(x) + \xi)$$



John Von Neumann And Norbert Wiener

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John Von Neumann and Norbert Wiener Steve J. Heims, 1980 John von Neumann and Norbert Wiener were mathematician scientists both child prodigies born near the turn of the century As young men each made profound contributions to abstract mathematics *John von Neumann: The Scientific Genius Who Pioneered the Modern Computer, Game Theory, Nuclear Deterrence, and Much More* Norman Macrae, 2019-07-31 John von Neumann was a Jewish refugee from Hungary considered a genius like fellow Hungarians Leo Szilard Eugene Wigner and Edward Teller who played key roles developing the A bomb at Los Alamos during World War II As a mathematician at Princeton s Institute for Advanced Study where Einstein was also a professor von Neumann was a leader in the development of early computers Later he developed the new field of game theory in economics and became a top nuclear arms policy adviser to the Truman and Eisenhower administrations I always thought von Neumann s brain indicated that he belonged to a new species an evolution beyond man Macrae shows us in a lively way how this brain was nurtured and then left its great imprint on the world Hans A Bethe Cornell University The book makes for utterly captivating reading Von Neumann was of course one of this century s geniuses and it is surprising that we have had to wait so long for a fully fleshed and sympathetic biography of the man But now happily we have one Macrae nicely delineates the cultural familial and educational environment from which von Neumann sprang and sketches the mathematical and scientific environment in which he flourished It s no small task to render a genius like von Neumann in ordinary language yet Macrae manages the trick providing more than a glimpse of what von Neumann accomplished intellectually without expecting the reader to have a Ph D in mathematics Beyond that he captures von Neumann s qualities of temperament mind and personality including his effortless wit and humor And Macrae frames and accounts for von Neumann s politics in ways that even critics of them among whom I include myself will find provocative and illuminating Daniel J Kevles California Institute of Technology A lively portrait of the hugely consequential nonmathematician physicist et al whose genius has left an enduring impress on our thought technology society and culture A double salute to Steve White who started this grand book designed for us avid nonmathematical readers and to Norman Macrae who brought it to a triumphant conclusion Robert K Merton Columbia University The first full scale biography of this polymath who was born Jewish in Hungary in 1903 and died Roman Catholic in the United States at the age of 53 And Mr Macrae has some great stories to tell Mr Macrae s biography has rescued a lot of good science gossip from probable extinction and has introduced many of us to the life story of a man we ought to know better Ed Regis The New York Times A nice and fascinating picture of a genius who was active in so many domains Zentralblatt MATH Biographer Macrae takes a newspaperman approach which stresses the context and personalities associated with von Neumann s remarkable life rather than attempting to give a detailed scholarly analysis of von Neumann s papers The resulting book is a highly entertaining account that is difficult to put down Journal of Mathematical Psychology A full and intimate biography of the man who

consciously and deliberately set mankind moving along the road that led us into the Age of Computers Freeman Dyson Princeton NJ It is good to have a biography of one of the most important mathematicians of the twentieth century even if it is a biography that focuses much more on the man than on the mathematics Fernando Q Gouv a Mathematical Association of America Based on much research his own and that of others especially of Stephen White Macrae has written a valuable biography of this remarkable genius of our century without the opacity of technical mathematical dimensions that are part of the hero s intellectual contributions to humanity Interesting informative illuminating and insightful Choice Review Macrae paints a highly readable humanizing portrait of a man whose legacy still influences and shapes modern science and knowledge Resonance Journal of Science Education In this affectionate humanizing biography former Economist editor Macrae limns a prescient pragmatist who actively fought against fascism and who advocated a policy of nuclear deterrence because he foresaw that Stalin s Soviet Union would rapidly acquire the bomb and develop rocketry Macrae makes von Neumann s contributions accessible to the lay reader and also discusses von Neumann s relationships with two long suffering wives his political differences with Einstein and the cancer that killed him Publishers Weekly Macrae s life of the great mathematician shows dramatically what proper care and feeding can do for an unusually capacious mind John Wilkes Los Angeles Times

The Legacy of John von Neumann American Mathematical Society,1990 The ideas of John von Neumann have had a profound influence on modern mathematics and science One of the great thinkers of our century von Neumann initiated major branches of mathematics from operator algebras to game theory to scientific computing and had a fundamental impact on such areas as self adjoint operators ergodic theory and the foundations of quantum mechanics and numerical analysis and the design of the modern computer This volume contains the proceedings of an AMS Symposium in Pure Mathematics held at Hofstra University in May 1988 The symposium brought together some of the foremost researchers in the wide range of areas in which von Neumann worked These articles illustrate the sweep of von Neumann s ideas and thinking and document their influence on contemporary mathematics In addition some of those who knew von Neumann when he was alive have presented here personal reminiscences about him This book is directed to those interested in operator theory game theory ergodic theory and scientific computing as well as to historians of mathematics and others having an interest in the contemporary history of the mathematical sciences This book will give readers an appreciation for the workings of the mind of one of the mathematical giants of our time

Proceedings of the Norbert Wiener Centenary Congress, 1994 Vidyadhar Mandrekar,Pesi Rustom Masani,1997-01-01 A mathematician on par with the greatest in the century Norbert Wiener was a universal thinker of colossal proportions This book contains the proceedings of the Norbert Wiener Centenary Congress held at Michigan State University on November 27 December 2 1994 The aim of the Congress was to reveal the depth and strong coherence of thought that runs through Wiener s legacy and to exhibit its continuation in on going research This volume brings together the great minds who have furthered Wiener s ideas in physics stochastics

harmonic analysis philosophy prosthesis and cybernetics The presentations coherently lay out the developments of the subjects from their inception This volume provides an excellent pathway for new investigators who may wish to pursue these developments by following the footsteps of world experts There is no other book available in which experts in the various fields in which Wiener worked have presented his thoughts and contributions in such a coherent and lucid manner *The Legacy of John Von Neumann* James G. Glimm, John Impagliazzo, Isadore Singer, 2006-09-08 The ideas of John von Neumann have had a profound influence on modern mathematics and science One of the great thinkers of our century von Neumann initiated major branches of mathematics from operator algebras to game theory to scientific computing and had a fundamental impact on such areas as self adjoint operators ergodic theory and the foundations of quantum mechanics and numerical analysis and the design of the modern computer This volume contains the proceedings of an AMS Symposium in Pure Mathematics held at Hofstra University in May 1988 The symposium brought together some of the foremost researchers in the wide range of areas in which von Neumann worked These articles illustrate the sweep of von Neumann's ideas and thinking and document their influence on contemporary mathematics In addition some of those who knew von Neumann when he was alive have presented here personal reminiscences about him This book is directed to those interested in operator theory game theory ergodic theory and scientific computing as well as to historians of mathematics and others having an interest in the contemporary history of the mathematical sciences This book will give readers an appreciation for the workings of the mind of one of the mathematical giants of our time **John von Neumann y Norbert Wiener**, 1986

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