

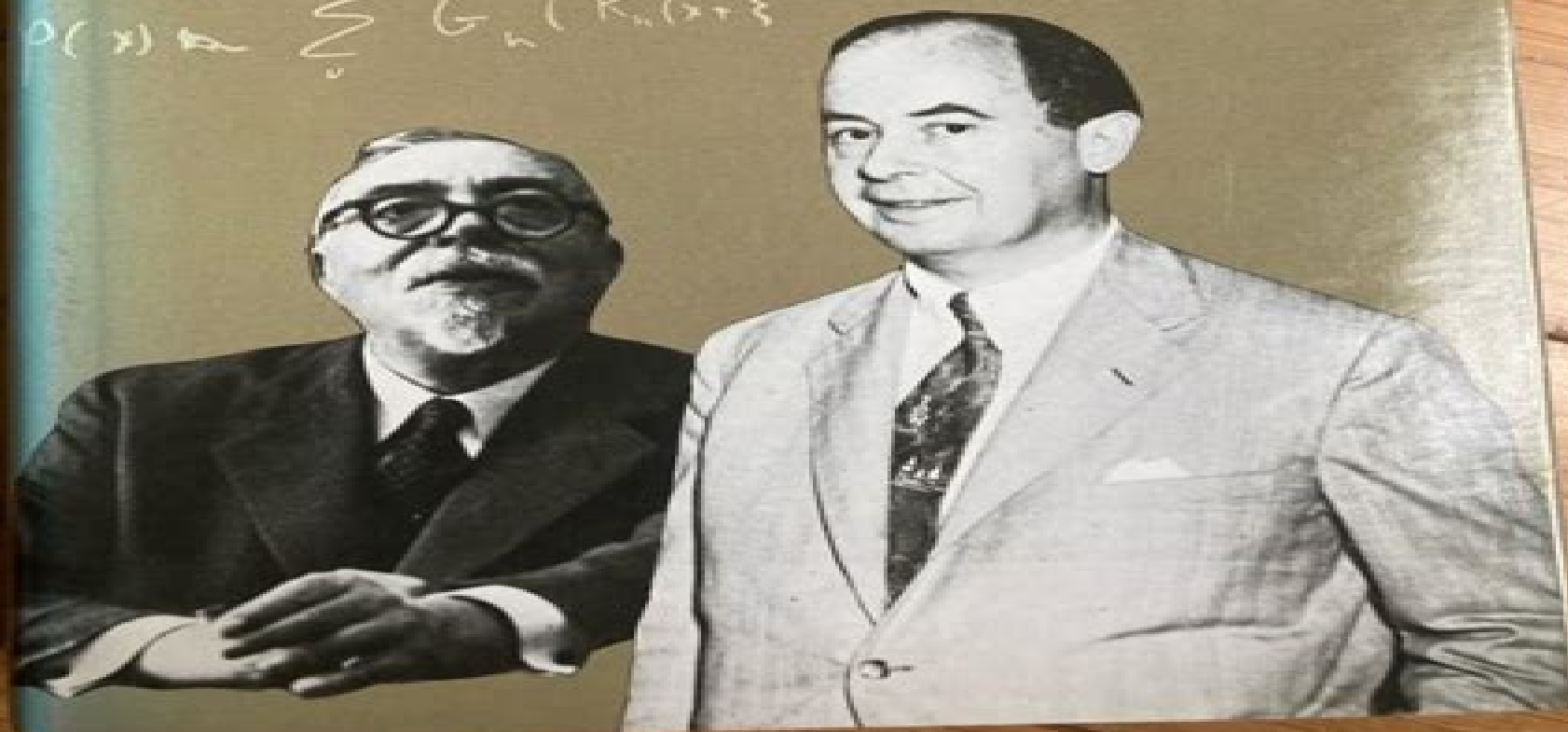
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JOHN VON NEUMANN  
AND NORBERT WIENER

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

**Léo Pomar**



## **John Von Neumann And Norbert Wiener:**

*John von Neumann and Norbert Wiener : from mathematics to the technologies of life and death* Steve J. Heims, 1987

**On the Origins of Cognitive Science** Jean-Pierre Dupuy, 2009-04-17 An examination of the fundamental role cybernetics played in the birth of cognitive science and the light this sheds on current controversies The conceptual history of cognitive science remains for the most part unwritten In this groundbreaking book Jean Pierre Dupuy one of the principal architects of cognitive science in France provides an important chapter the legacy of cybernetics Contrary to popular belief Dupuy argues cybernetics represented not the anthropomorphization of the machine but the mechanization of the human The founding fathers of cybernetics some of the greatest minds of the twentieth century including John von Neumann Norbert Wiener Warren McCulloch and Walter Pitts intended to construct a materialist and mechanistic science of mental behavior that would make it possible at last to resolve the ancient philosophical problem of mind and matter The importance of cybernetics to cognitive science Dupuy argues lies not in its daring conception of the human mind in terms of the functioning of a machine but in the way the strengths and weaknesses of the cybernetics approach can illuminate controversies that rage today between cognitivists and connectionists eliminative materialists and Wittgensteinians functionalists and anti reductionists Dupuy brings to life the intellectual excitement that attended the birth of cognitive science sixty years ago He separates the promise of cybernetic ideas from the disappointment that followed as cybernetics was rejected and consigned to intellectual oblivion The mechanization of the mind has reemerged today as an all encompassing paradigm in the convergence of nanotechnology biotechnology information technology and cognitive science The tensions contradictions paradoxes and confusions Dupuy discerns in cybernetics offer a cautionary tale for future developments in cognitive science

The Cybernetics Moment Ronald R. Kline, 2015-07-15 Choice Outstanding Academic Title Cybernetics the science of communication and control as it applies to machines and to humans originates from efforts during World War II to build automatic anti-aircraft systems Following the war this science extended beyond military needs to examine all systems that rely on information and feedback from the level of the cell to that of society In *The Cybernetics Moment* Ronald R Kline a senior historian of technology examines the intellectual and cultural history of cybernetics and information theory whose language of information feedback and control transformed the idiom of the sciences hastened the development of information technologies and laid the conceptual foundation for what we now call the Information Age Kline argues that for about twenty years after 1950 the growth of cybernetics and information theory and ever more powerful computers produced a utopian information narrative an enthusiasm for information science that influenced natural scientists social scientists engineers humanists policymakers public intellectuals and journalists all of whom struggled to come to grips with new relationships between humans and intelligent machines Kline traces the relationship between the invention of computers and communication systems and the rise decline and transformation of cybernetics by analyzing the lives and work of such

notables as Norbert Wiener Claude Shannon Warren McCulloch Margaret Mead Gregory Bateson and Herbert Simon Ultimately he reveals the crucial role played by the cybernetics moment when cybernetics and information theory were seen as universal sciences in setting the stage for our current preoccupation with information technologies Nowhere in the burgeoning secondary literature on cybernetics in the last two decades is there a concise history of cybernetics the science of communication and control that helped usher in the current information age in America Nowhere that is until now Readers have in The Cybernetics Moment the first authoritative history of American cybernetics Information Culture A n extremely interesting and stimulating history of the concepts of cybernetics This is a book for everyone to read relish and think about Choice As a whole the book presents a comprehensive in depth retrospective analysis of the contribution of the American scientific school to the making formation and development of cybernetics and information theory An unquestionable advantage of the book is the skillful use of numerous bibliographic sources by the author that reflect the scientific engineering and social significance of the questions being considered competition of ideas and developments and also interrelations between scientists Cybernetics and System Analysis Dr Kline is perhaps uniquely situated to take on so large and complicated a topic as cybernetics Readers unfamiliar with Wiener and his work are well advised to start with this well written and thorough book Those who are already familiar will still find much that is new and informative in the thorough research and reasoned interpretations IEEE History Center The most comprehensive intellectual history of cybernetics in Cold War America Journal of American History The book will be most valuable as historical background for the large number of disciplines that were involved in the cybernetics moment computer science communications engineering information theory and the social sciences of sociology and anthropology IEEE Technology and Society Magazine Ronald Kline s chronicle of cybernetics certainly does what an excellent history of science should do It takes you there to the golden age of a new exciting field You will almost smell that cigar Second Order Cybernetics Kline s The Cybernetics Moment tracks the rise and fall of the cybernetics movement in more detail than any historical account to date Los Angeles Review of Books     **John Von Neumann y Norbert Wiener** Steve J. Heims,1986     **John von Neumann y Norbert Wiener** ,1986     **Digital Delirium** Arthur Kroker,Marilouise Kroker,1997-05-15 Digital Delirium is a manifest against the right wing politics of cyberlibertarianism and for rewiring the question of ethics to digital reality Bringing together the most creative minds of the digital generation it explores what is lost and what is gained by being digital     **Wisdom Of The Martians Of Science: In Their Own Words With Commentaries** Istvan Hargittai,Balazs Hargittai,2015-12-10 Wisdom of the Martians of Science refers to five scientists whose brilliance contributed to shaping the modern world John von Neumann was a pioneer of the modern computer Theodore von K r m n was the scientist behind the US Air Force Leo Szilard initiated the development of nuclear weapons the Nobel laureate Eugene P Wigner was the world s first nuclear engineer and Edward Teller was the father of the hydrogen bomb They were born and raised in Budapest were forced out of Hungary and then from Germany they became

Americans and devoted themselves to the defense of the United States and the Free World They contributed significant discoveries to fundamental science ranging from the properties of materials to the application of the symmetry principle in physics to creating information theory to game theory The areas in which we can learn about their wisdom include applications of science to past present and future real world needs defense education environment human nature humor politics religion weather modification and others This book shows the wisdom of the Martians by presenting their thoughts and ideas in their own words and placing them into context Their wisdom is intriguing witty provocative and thought provoking It extended over many aspects of life and culture that impinge on our existence While we cannot always agree with what they say they are never boring The power of their words and their philosophies will inspire the readers to pursue their own dreams

**From Newspeak to Cyberspeak** Slava Gerovitch, 2004-09-17 In this book Slava Gerovitch argues that Soviet cybernetics was not just an intellectual trend but a social movement for radical reform in science and society as a whole Followers of cybernetics viewed computer simulation as a universal method of problem solving and the language of cybernetics as a language of objectivity and truth With this new objectivity they challenged the existing order of things in economics and politics as well as in science The history of Soviet cybernetics followed a curious arc In the 1950s it was labeled a reactionary pseudoscience and a weapon of imperialist ideology With the arrival of Khrushchev's political thaw however it was seen as an innocent victim of political oppression and it evolved into a movement for radical reform of the Stalinist system of science In the early 1960s it was hailed as science in the service of communism but by the end of the decade it had turned into a shallow fashionable trend Using extensive new archival materials Gerovitch argues that these fluctuating attitudes reflected profound changes in scientific language and research methodology across disciplines in power relations within the scientific community and in the political role of scientists and engineers in Soviet society His detailed analysis of scientific discourse shows how the Newspeak of the late Stalinist period and the Cyberspeak that challenged it eventually blended into CyberNewspeak

**Systems, Experts, and Computers** Agatha C. Hughes, Thomas Parke Hughes, 2011-01-21 This groundbreaking book charts the origins and spread of the systems movement After World War II a systems approach to solving complex problems and managing complex systems came into vogue among engineers scientists and managers fostered in part by the diffusion of digital computing power Enthusiasm for the approach peaked during the Johnson administration when it was applied to everything from military command and control systems to poverty in American cities Although its failure in the social sphere coupled with increasing skepticism about the role of technology and experts in American society led to a retrenchment systems methods are still part of modern managerial practice This groundbreaking book charts the origins and spread of the systems movement It describes the major players including RAND MITRE Ramo Wooldridge later TRW and the International Institute of Applied Systems Analysis and examines applications in a wide variety of military government civil and engineering settings The book is international in scope describing the spread of systems

thinking in France and Sweden The story it tells helps to explain engineering thought and managerial practice during the last sixty years

**Political Theory of the Digital Age** Mathias Risse,2023-02-09 With the rise of far reaching technological innovation from artificial intelligence to Big Data human life is increasingly unfolding in digital lifeworlds While such developments have made unprecedented changes to the ways we live our political practices have failed to evolve at pace with these profound changes In this path breaking work Mathias Risse establishes a foundation for the philosophy of technology allowing us to investigate how the digital century might alter our most basic political practices and ideas Risse engages major concepts in political philosophy and extends them to account for problems that arise in digital lifeworlds including AI and democracy synthetic media and surveillance capitalism and how AI might alter our thinking about the meaning of life Proactive and profound Political Theory of the Digital Age offers a systemic way of evaluating the effect of AI allowing us to anticipate and understand how technological developments impact our political lives before it s too late

**Essays on Twentieth-Century History** Michael Adas,American Historical Association,2010-05-28 Probing the paradoxes of the long twentieth century Unprecedented human opportunity and deprivation to the rise of the United States as a hegemon The Great Escape Kati Marton,2006-10-17 Extravagantly praised by critics and readers this stunning story by bestselling author Kati Marton tells of the breathtaking journey of nine extraordinary men from Budapest to the New World what they experienced along their dangerous route and how they changed America and the world This is the unknown chapter of World War II the tale of nine men who grew up in Budapest s brief Golden Age then driven from Hungary by anti Semitism fled to the West especially to the United States and changed the world These nine men each celebrated for individual achievements were part of a unique group who grew up in a time and place that will never come again Four helped usher in the nuclear age and the computer two were major movie myth makers two were immortal photographers and one was a seminal writer The Great Escape is a groundbreaking poignant American story and an important untold chapter of the tumultuous last century

**The New Era in American Mathematics, 1920-1950** Karen Hunger Parshall,2022-02-22 The 1920s witnessed the birth of a serious mathematical research community in America Prior to this mathematical research was dominated by scholars based in Europe but World War I had made the importance of scientific and technological development clear to the American research community resulting in the establishment of new scientific initiatives and infrastructure Physics and chemistry were the beneficiaries of this renewed scientific focus but the mathematical community also benefitted and over time began to flourish Over the course of the next two decades despite significant obstacles this constellation of mathematical researchers programs and government infrastructure would become one of the strongest in the world In this meticulously researched book Karen Parshall documents the uncertain but ultimately successful rise of American mathematics during this time Drawing on research carried out in archives around the country and around the world as well as on the secondary literature she reveals how geopolitical circumstances shifted the course of international mathematics

She provides surveys of the mathematical research landscape in the 1920s 30s and 40s introduces the key players and institutions in mathematics at that time and documents the effect of the Great Depression and the second world war on the international mathematical community The result is a comprehensive account of the shift of mathematics center of gravity to the American stage     Reader's Guide to the History of Science Arne Hessenbruch,2013-12-16 The Reader s Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn     **Calculating a Natural World** Atsushi Akera,2007 How the complex interplay of academic commercial and military interests produced an intense period of scientific discovery and technological innovation in computing during the Cold War     **Modern Mathematics, Updated Edition** Michael Bradley,2019-11-01 Praise for the previous edition ample information for reports School Library Journal During the first half of the 20th century mathematics became an international discipline that led to major advances in science and technology Modern Mathematics Updated Edition provides an eye opening introduction to those five historic decades by analyzing the advancement of the field through the accomplishments of 10 significant mathematicians From David Hilbert and Emmy Noether who introduced the infinite dimensional vector spaces and algebraic rings that bear their names to Norbert Wiener the founder of cybernetics this in depth title covers the early 20th century advancements that expanded the field of mathematics and transformed the way that mathematicians do their work This edition is ideal for middle and high school students seeking resources for research or general interest     *The Culture of Feedback* Daniel Belgrad,2019-08-30 When we want advice from others we often casually speak of getting some feedback But how many of us give a thought to what this phrase means The idea of feedback actually dates to World War II when the term was developed to describe the dynamics of self regulating systems which correct their actions by feeding their effects back into themselves By the early 1970s feedback had become the governing trope for a counterculture that was reoriented and reinvigorated by ecological thinking The Culture of Feedback digs deep into a dazzling variety of left of center experiences and attitudes from this misunderstood period bringing us a new look at the wild side of the 1970s Belgrad shows us how ideas from systems theory were taken up by the counterculture and the environmental movement eventually influencing a wide range of beliefs and behaviors particularly related to the question of what is and is not intelligence He tells the story of a generation of Americans who were struck by a newfound interest in and respect for plants animals indigenous populations and the very sounds around them threading his tapestry with cogent insights on environmentalism feminism systems theory and psychedelics The Culture of Feedback repaints the familiar image of the 70s as a time of Me Generation malaise to reveal an era of revolutionary and hopeful social currents driven by desires to radically improve and feed back into the systems that had come before     *Encyclopedia of*

*Optimization* Christodoulos A. Floudas, Panos M. Pardalos, 2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling

**From Counterculture to Cyberculture** Fred Turner, 2024-05-31 In this unique provocative work of cultural history Turner teases apart the visions myths and rhetoric that have swept us into cyberspace Booklist starred review In the early 1960s computers haunted the American popular imagination Bleak tools of the cold war they embodied the rigid organization and mechanical conformity that made the military industrial complex possible But by the 1990s and the dawn of the Internet computers started to represent a very different kind of world a collaborative and digital utopia modeled on the communal ideals of the hippies who so vehemently rebelled against the cold war establishment in the first place From Counterculture to Cyberculture is the first book to explore this extraordinary and ironic transformation Fred Turner here traces the previously untold story of a highly influential group of San Francisco Bay area entrepreneurs Stewart Brand and the Whole Earth network Between 1968 and 1998 via such familiar venues as the National Book Award winning Whole Earth Catalog the computer conferencing system known as WELL and ultimately the launch of the wildly successful Wired magazine Brand and his colleagues brokered a long running collaboration between San Francisco flower power and the emerging technological hub of Silicon Valley Thanks to their vision counterculturalists and technologists alike joined together to reimagine computers as tools for personal liberation the building of virtual and decidedly alternative communities and the exploration of bold new social frontiers Shedding new light on how our networked culture came to be this fascinating book reminds us that the distance between the Grateful Dead and Google between Ken Kesey and the computer itself is not as great as we might think

[The Philosophy of Science: N-Z, Index](#) Sahotra Sarkar, Jessica Pfeifer, 2006 The first in depth reference to the field that combines scientific knowledge with philosophical inquiry this encyclopedia brings together a team of leading scholars to provide nearly 150 entries on the essential concepts in the philosophy of science The areas covered include biology chemistry epistemology and metaphysics physics psychology and mind the social sciences and key figures in the combined studies of science and philosophy Midwest



## Decoding **John Von Neumann And Norbert Wiener**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**John Von Neumann And Norbert Wiener**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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