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discusses the legacy of her father, John von Neumann, in her memoir **John von Neumann: Prophet of the 21st Century (English Subtitles) [HD]** ~~Eugene Wigner on John von Neumann~~ *John von Neumann 's theory* Edward Teller - Getting together with Szilárd, von Neumann and Wigner (11/147)

The Martian's Daughter: A Memoir. Author Marina von Neumann Whitman in conversation with John Hollar Sydney Brenner - John von Neumann and the history of DNA and self-replication (45/236) *John Von Neumann And The Visionary Life of John von Neumann'* (Allen Lane, £20 ISBN 9780241398852), Ananyo

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Bhattacharya does just that, guiding us through the ideas that built the modern world while making sense of the man ...

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Everyday wisdom tells us it's much better to

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avoid a problem than to try to fix it afterward. That's one reason cutting greenhouse emissions is by far the preferred option for limiting climate change.

What is geoengineering? ... and why it's a 'break glass' plan

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Off the Path: Garden State – The Institute Of 'Useless Knowledge'

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Recently the big scientific congress – the Summit of the International Society for Study of Information (IS4SI) took place. It consisted of several conferences and workshops.

From Plato's World of Ideas and Forms to Human and Machine Intelligence

The crew returned to the Costa del Sol for upcoming scenes as filming got underway in sunny Marbella on Monday.

The Crown series 5: The crew return to the Costa del Sol for upcoming scenes

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The objectives of Thor Klein, writer and director of "Adventures of a Mathematician," were very well-intentioned, but good intentions, while not exactly leading to the road to hell, don't make ...

"Adventures of a Mathematician" – A story problem [MOVIE REVIEW]

Through Bitcoin we have potentiated programmable technological singularity and possibly superintelligence. Without Bitcoin, machines have no autonomy, no beliefs, no motivations, and no desires.

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Bitcoin Is The Singularity

A new peer-reviewed study published this week in PNAS shows how learning, an important aspect of human intelligence, can be recreated in synthetic matter—a discovery that can lead to new forms of ...

Psychology Today

Stan Ulam, the title character in the film “The Adventures of a Mathematician,” helped build the atomic bomb at Los Alamos, New Mexico.

As mathematic geniuses go, this Jewish enigma

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History Of Computing
was no Stephen Hawking

The British actor, 39, was spotted arriving to film scenes for the Netflix alongside his wife Cressida Trew and actress Erin Richards as they boarded ...

The Crown's Khalid Abdalla films scenes as Diana's lover Dodi Fayed on ...

As a programmer, far from seeing the tool as risking her job she likes the idea of having AI to support her with "the more boring parts" of coding, like checking over complicated ...

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*Why coders love the AI that could put them
out of a job*

The latest car from GT0 Engineering is a recreation of the classic Ferrari 250 SWB California Spyder. It's as glorious as it looks.

*GT0 Engineering 250 SWB California Spyder
2021 review*

The Berkeley Forum announced its fall 2021 lineup of 12 events featuring panels and speakers from a variety of different fields and disciplines.

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John von Neumann (1903-1957) was unquestionably one of the most brilliant scientists of the twentieth century. He made major contributions to quantum mechanics and mathematical physics and in 1943 began a new and all-too-short career in computer science. William Aspray provides the first broad and detailed account of von Neumann's many different contributions to computing. These, Aspray reveals, extended far beyond his well-known work in the design and construction of computer systems to include important

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Scientific applications, the revival of numerical analysis, and the creation of a theory of computing. Aspray points out that from the beginning von Neumann took a wider and more theoretical view than other computer pioneers. In the now famous EDVAC report of 1945, von Neumann clearly stated the idea of a stored program that resides in the computer's memory along with the data it was to operate on. This stored program computer was described in terms of idealized neurons, highlighting the analogy between the digital computer and the human brain. Aspray describes von Neumann's development during

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the next decade, and almost entirely alone, of a theory of complicated information processing systems, or automata, and the introduction of themes such as learning, reliability of systems with unreliable components, self-replication, and the importance of memory and storage capacity in biological nervous systems; many of these themes remain at the heart of current investigations in parallel or neurocomputing. Aspray allows the record to speak for itself. He unravels an intricate sequence of stories generated by von Neumann's work and brings into focus the

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interplay of personalities centered about von Neumann. He documents the complex interactions of science, the military, and business and shows how progress in applied mathematics was intertwined with that in computers. William Aspray is Director of the Center for the History of Electrical Engineering at The Institute of Electrical and Electronics Engineers.

First published in 1958, John von Neumann's classic work "The Computer and the Brain" explored the analogies between computing machines and the living human brain. Von

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Neumann showed that the brain operates both digitally and analogically, but also has its own unique statistical language. And more than fifty years after its inception the "von Neumann architecture"--An organizational framework for computer design - still lies at the heart of today's machines. In his foreword to this new edition, Ray Kurzweil, a futurist famous for his own musings on the relationship between technology and consciousness, places von Neumann's work in a historical context and shows how it remains relevant today.

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John von Neuman was perhaps the most influential mathematician of the twentieth century, especially if his broad influence outside mathematics is included. Not only did he contribute to almost all branches of mathematics and created new fields, but he also changed post-World War II history with his work on the design of computers and with being a sought-after technical advisor to many figures in the U.S. military-political establishment in the 1940s and 1950s. The present volume is the first substantial collection of (previously mainly unpublished) letters written by von Neumann to colleagues,

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friends, government officials, and others. The letters give us a glimpse of the thinking of John von Neumann about mathematics, physics, computer science, science management, education, consulting, politics, and war. Readers of quite diverse backgrounds will find much of interest in this fascinating first-hand look at one of the towering figures of twentieth century science.

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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

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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

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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 (1903-1957) was undoubtedly one of the scientific geniuses of the 20th century. The main fields to which he contributed include various disciplines of pure and applied mathematics, mathematical and theoretical physics, logic, theoretical computer science, and computer architecture. Von Neumann was also actively involved in politics and science management and he had a

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major impact on US government decisions during, and especially after, the Second World War. There exist several popular books on his personality and various collections focusing on his achievements in mathematics, computer science, and economy. Strangely enough, to date no detailed appraisal of his seminal contributions to the mathematical foundations of quantum physics has appeared. Von Neumann's theory of measurement and his critique of hidden variables became the touchstone of most debates in the foundations of quantum mechanics. Today, his name also figures most prominently in the

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Mathematically rigorous branches of contemporary quantum mechanics of large systems and quantum field theory. And finally - as one of his last lectures, published in this volume for the first time, shows - he considered the relation of quantum logic and quantum mechanical probability as his most important problem for the second half of the twentieth century. The present volume embraces both historical and systematic analyses of his methodology of mathematical physics, and of the various aspects of his work in the foundations of quantum physics, such as theory of measurement, quantum logic,

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and quantum mechanical entropy. The volume is rounded off by previously unpublished letters and lectures documenting von Neumann's thinking about quantum theory after his 1932 *Mathematical Foundations of Quantum Mechanics*. The general part of the Yearbook contains papers emerging from the Institute's annual lecture series and reviews of important publications of philosophy of science and its history.

This work is a historical and philosophical study of the programming work carried out by John von Neumann in the period 1945-8. At the

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History Of Computing

Heart of the book is an examination of a manuscript featuring the earliest known surviving example of von Neumann's coding, a routine written in 1945 to 'mesh' two sequences of data and intended to be part of a larger program implementing the algorithm now known as mergesort. The text of the manuscript itself, along with a preliminary document describing the code he used to write this program, are reproduced as appendices. The program is approached in three chapters describing the historical background to von Neumann's work, the significance of the sorting application itself, and the

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development of the EDVAC, the machine for which the program was written. The subsequent chapters widen the focus again, discussing the subsequent evolution of the program and the crucial topic of subroutines, before concluding by situating von Neumann's work in a number of wider contexts. The book also offers a unifying philosophical interpretation of von Neumann's approach to coding.

This volume is the reprinted edition of the first full-scale biography of the man widely regarded as the greatest scientist of the

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History after Einstein. Born in Budapest in 1903, John von Neumann grew up in one of the most extraordinary of scientific communities. From his arrival in America in the mid-1930s--with bases in Boston, Princeton, Washington, and Los Alamos--von Neumann pioneered and participated in the major scientific and political dramas of the next three decades, leaving his mark on more fields of scientific endeavor than any other scientist. Von Neumann's work in areas such as game theory, mathematics, physics, and meteorology formed the building blocks for the most important discoveries of the

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History Of Computing: the modern computer, game theory, the atom bomb, radar, and artificial intelligence, to name just a few. From the laboratory to the highest levels of government, this definitive biography gives us a behind-the-scenes look at the politics and personalities involved in these world-changing discoveries. Written more than 30 years after von Neumann's untimely death at age 54, it was prepared with the cooperation of his family and includes information gained from interviewing countless sources across Europe and America. Norman Macrae paints a highly readable, humanizing portrait of a man

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whose legacy still influences and shapes modern science and knowledge. -- Amazon.com

John von Neumann and Marshall Stone were two giants of Twentieth Century mathematics. In honor of the 100th anniversary of their births, a mathematical celebration was organized featuring developments in fields where both men were major influences. This volume contains articles from the AMS Special Session, Operator Algebras, Quantization and Noncommutative Geometry: A Centennial Celebration in Honor of John von Neumann and Marshall H. Stone. Papers range from

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History Of Computing expository and historical surveys to original research articles. All articles were carefully refereed and cover a broad range of mathematical topics reflecting the fundamental ideas of von Neumann and Stone. Most contributions are expanded versions of the talks and were written exclusively for this volume. Included, among others, are articles by George W. Mackey, Nigel Higson, and Marc Rieffel. Also featured is a reprint of P.R. Halmos' "The Legend of John von Neumann". The book is suitable for graduate students and researchers interested in operator algebras and applications, including

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