

# **John von Neumann and the Foundations of Quantum Physics**

**edited by  
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# John Von Neumann And The Foundations Of Quantum Physics

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## **John Von Neumann And The Foundations Of Quantum Physics:**

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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such as theory of measurement quantum logic and quantum mechanical entropy The volume is rounded off by previously unpublished letters and lectures documenting von Neumann s thinking about quantum theory after his 1932 *Mathematical Foundations of Quantum Mechanics* The general part of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

*Mathematical Foundations of Quantum Mechanics* John von Neumann, 2018-02-27 Quantum mechanics was still in its infancy in 1932 when the young John von Neumann who would go on to become one of the greatest mathematicians of the twentieth century published *Mathematical Foundations of Quantum Mechanics* a revolutionary book that for the first time provided a rigorous mathematical framework for the new science Robert Beyer s 1955 English translation which von Neumann reviewed and approved is cited more frequently today than ever before But its many treasures and insights were too often obscured by the limitations of the way the text and equations were set on the page In this new edition of this classic work mathematical physicist Nicholas Wheeler has completely reset the book in TeX making the text and equations far easier to read He has also corrected a handful of typographic errors revised some sentences for clarity and readability provided an index for the first time and added prefatory remarks drawn from the writings of L on Van Hove and Freeman Dyson The result brings new life to an essential work in theoretical physics and mathematics

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[John S. Bell on the Foundations of Quantum Mechanics](#) J. S. Bell, Mary Bell, Kurt Gottfried, Martinus Veltman, 2001 This book is the most complete collection of John S Bell s research papers review articles and lecture notes on the foundations of quantum mechanics Some of this material has hitherto been difficult to access The book also appears in a paperback edition aimed at students and young researchers This volume will be very useful

to researchers in the foundations and applications of quantum mechanics

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**The Philosophy of Quantum Mechanics** Max Jammer, 1974-12-03 A Wiley Interscience publication

**John Von Neumann and Modern Economics** M. H. I. Dore, Sukhamoy Chakravarty, Richard Murphey Goodwin, 1989 Centering around von Neumann's 1937 paper on the model of an expanding economy this collection analyzes his versatility as a mathematician and his contribution to economics The contributors include Kenneth Arrow Lionello Punzo Paul Samuelson A Brody John Harsanyi Sidney Afriat Gerald Thompson and Nicholas Kaldor

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[Quaestio](#), 2002

[Historical Studies in the Physical and Biological Sciences](#), 2005

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