



## Thirty Years that Shook Physics: The Story of Quantum Theory

By George Gamow

Download now

Read Online 

**Thirty Years that Shook Physics: The Story of Quantum Theory** By George Gamow

"Dr. Gamow, physicist and gifted writer, has sketched an intriguing portrait of the scientists and clashing ideas that made the quantum revolution." — *Christian Science Monitor*

In 1900, German physicist Max Planck postulated that light, or radiant energy, can exist only in the form of discrete packages or *quanta*. This profound insight, along with Einstein's equally momentous theories of relativity, completely revolutionized man's view of matter, energy, and the nature of physics itself. In this lucid layman's introduction to quantum theory, an eminent physicist and noted popularizer of science traces the development of quantum theory from the turn of the century to about 1930 — from Planck's seminal concept (still developing) to anti-particles, mesons, and Enrico Fermi's nuclear research. Gamow was not just a spectator at the theoretical breakthroughs which fundamentally altered our view of the universe, he was an active participant who made important contributions of his own. This "insider's" vantage point lends special validity to his careful, accessible explanations of Heisenberg's Uncertainty Principle, Niels Bohr's model of the atom, the pilot waves of Louis de Broglie and other path-breaking ideas.

In addition, Gamow recounts a wealth of revealing personal anecdotes which give a warm human dimension to many giants of 20th-century physics. He ends the book with the Blegdamsvej *Faust*, a delightful play written in 1932 by Niels Bohr's students and colleagues to satirize the epochal developments that were revolutionizing physics. This celebrated play is available only in this volume. Written in a clear, lively style, and enhanced by 12 photographs (including candid shots of Rutherford, Bohr, Pauli, Heisenberg, Fermi, and others), *Thirty Years that Shook Physics* offers both scientists and laymen a highly readable introduction to the brilliant conceptions that helped unlock many secrets of energy and matter and laid the groundwork for future discoveries.

 [Download Thirty Years that Shook Physics: The Story of Quan ...pdf](#)

 [Read Online](#) Thirty Years that Shook Physics: The Story of Qu ...pdf

# Thirty Years that Shook Physics: The Story of Quantum Theory

By George Gamow

## Thirty Years that Shook Physics: The Story of Quantum Theory By George Gamow

"Dr. Gamow, physicist and gifted writer, has sketched an intriguing portrait of the scientists and clashing ideas that made the quantum revolution." — *Christian Science Monitor*

In 1900, German physicist Max Planck postulated that light, or radiant energy, can exist only in the form of discrete packages or *quanta*. This profound insight, along with Einstein's equally momentous theories of relativity, completely revolutionized man's view of matter, energy, and the nature of physics itself.

In this lucid layman's introduction to quantum theory, an eminent physicist and noted popularizer of science traces the development of quantum theory from the turn of the century to about 1930 — from Planck's seminal concept (still developing) to anti-particles, mesons, and Enrico Fermi's nuclear research. Gamow was not just a spectator at the theoretical breakthroughs which fundamentally altered our view of the universe, he was an active participant who made important contributions of his own. This "insider's" vantage point lends special validity to his careful, accessible explanations of Heisenberg's Uncertainty Principle, Niels Bohr's model of the atom, the pilot waves of Louis de Broglie and other path-breaking ideas.

In addition, Gamow recounts a wealth of revealing personal anecdotes which give a warm human dimension to many giants of 20th-century physics. He ends the book with the Blegdamsvej *Faust*, a delightful play written in 1932 by Niels Bohr's students and colleagues to satirize the epochal developments that were revolutionizing physics. This celebrated play is available only in this volume.

Written in a clear, lively style, and enhanced by 12 photographs (including candid shots of Rutherford, Bohr, Pauli, Heisenberg, Fermi, and others), *Thirty Years that Shook Physics* offers both scientists and laymen a highly readable introduction to the brilliant conceptions that helped unlock many secrets of energy and matter and laid the groundwork for future discoveries.

## Thirty Years that Shook Physics: The Story of Quantum Theory By George Gamow Bibliography

- Sales Rank: #281048 in eBooks
- Published on: 2012-05-11
- Released on: 2012-04-13
- Format: Kindle eBook

 [Download Thirty Years that Shook Physics: The Story of Quan ...pdf](#)

 [Read Online Thirty Years that Shook Physics: The Story of Qu ...pdf](#)

## Download and Read Free Online **Thirty Years that Shook Physics: The Story of Quantum Theory** By George Gamow

---

### Editorial Review

About the Author

#### Modern Science Made Easy

By one of the leading physicists of the twentieth century, George Gamow's *One, Two, Three...Infinity* is one of the most memorable popular books on physics, mathematics, and science generally ever written, famous for having, directly or indirectly, launched the academic and/or scientific careers of many young people whose first real encounter with the wonders and mysteries of mathematics and science was through reading this book as a teenager. Untypically for popular science books, this one is enhanced by the author's own delightful sketches. Reviewers were enthusiastic when *One, Two, Three...Infinity* was published in 1947.

In the Author's Own Words:

"If and when all the laws governing physical phenomena are finally discovered, and all the empirical constants occurring in these laws are finally expressed through the four independent basic constants, we will be able to say that physical science has reached its end, that no excitement is left in further explorations, and that all that remains to a physicist is either tedious work on minor details or the self-educational study and adoration of the magnificence of the completed system. At that stage physical science will enter from the epoch of Columbus and Magellan into the epoch of the *National Geographic Magazine!*" — George Gamow

Critical Acclaim for *One, Two, Three...Infinity*:

"This skillful presentation is for the non-professional and professional scientist. It will broaden the knowledge of each and give the imagination wide play." — *Chemistry and Engineering News*

"A stimulating and provocative book for the science-minded layman." — *Kirkus Reviews*

"This is a layman's book as readable as a historical novel, but every chapter bears the solid imprint of authoritative research." — *San Francisco Chronicle*

"George Gamow succeeds where others fail because of his remarkable ability to combine technical accuracy, choice of material, dignity of expression, and readability." — *Saturday Review of Literature*

### Users Review

From reader reviews:

**James Flynn:**

Why don't make it to become your habit? Right now, try to prepare your time to do the important behave, like looking for your favorite reserve and reading a guide. Beside you can solve your long lasting problem; you can add your knowledge by the guide entitled *Thirty Years that Shook Physics: The Story of Quantum*

Theory. Try to the actual book *Thirty Years that Shook Physics: The Story of Quantum Theory* as your buddy. It means that it can be your friend when you really feel alone and beside associated with course make you smarter than ever before. Yeah, it is very fortunate for yourself. The book makes you far more confidence because you can know every little thing by the book. So, we need to make new experience and also knowledge with this book.

### **Eleanor Hayes:**

Nowadays reading books are more than want or need but also become a life style. This reading addiction give you lot of advantages. The advantages you got of course the knowledge the particular information inside the book that improve your knowledge and information. The knowledge you get based on what kind of guide you read, if you want send more knowledge just go with knowledge books but if you want feel happy read one together with theme for entertaining such as comic or novel. Often the *Thirty Years that Shook Physics: The Story of Quantum Theory* is kind of publication which is giving the reader capricious experience.

### **Christine Curnutt:**

A lot of people always spent their free time to vacation or go to the outside with them family or their friend. Are you aware? Many a lot of people spent they free time just watching TV, as well as playing video games all day long. If you would like try to find a new activity this is look different you can read a new book. It is really fun in your case. If you enjoy the book which you read you can spent all day long to reading a publication. The book *Thirty Years that Shook Physics: The Story of Quantum Theory* it is very good to read. There are a lot of folks that recommended this book. These were enjoying reading this book. When you did not have enough space bringing this book you can buy typically the e-book. You can more very easily to read this book from the smart phone. The price is not very costly but this book possesses high quality.

### **Joe Stearns:**

Do you like reading a e-book? Confuse to looking for your favorite book? Or your book has been rare? Why so many problem for the book? But any kind of people feel that they enjoy regarding reading. Some people likes studying, not only science book but novel and *Thirty Years that Shook Physics: The Story of Quantum Theory* or others sources were given information for you. After you know how the great a book, you feel desire to read more and more. Science reserve was created for teacher or perhaps students especially. Those guides are helping them to bring their knowledge. In various other case, beside science e-book, any other book likes *Thirty Years that Shook Physics: The Story of Quantum Theory* to make your spare time far more colorful. Many types of book like this one.

**Download and Read Online *Thirty Years that Shook Physics: The Story of Quantum Theory* By George Gamow #1U0LBW7DQAV**

## **Read Thirty Years that Shook Physics: The Story of Quantum Theory By George Gamow for online ebook**

Thirty Years that Shook Physics: The Story of Quantum Theory By George Gamow Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Thirty Years that Shook Physics: The Story of Quantum Theory By George Gamow books to read online.

### **Online Thirty Years that Shook Physics: The Story of Quantum Theory By George Gamow ebook PDF download**

#### **Thirty Years that Shook Physics: The Story of Quantum Theory By George Gamow Doc**

**Thirty Years that Shook Physics: The Story of Quantum Theory By George Gamow Mobipocket**

**Thirty Years that Shook Physics: The Story of Quantum Theory By George Gamow EPub**

**1U0LBW7DQAV: Thirty Years that Shook Physics: The Story of Quantum Theory By George Gamow**