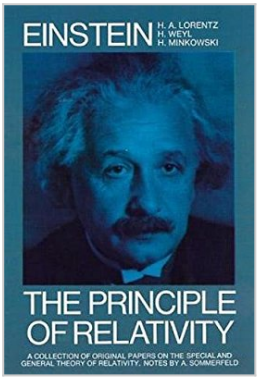

The Principle of Relativity (Dover Books on Physics)

By Albert Einstein, Francis A. Davis, Physics

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This collection of original papers on the special and general theories of relativity is an unabridged translation of the 4th edition of Das *Relativitatsprinzip,* together with a revised edition of an additional paper by H. A. Lorentz.
CONTENTS: I. "Michelson's Interference Experiment" by H. A . Lorentz. II. "Electromagnetic Phenomena in a System Moving with any Velocity Less than that of Light" by H. A . Lorentz. Ill. "On the Electrodynamics of Moving Bodies" by A. Einstein. IV. "Does the Inertia of a Body Depend Upon its Energy-Content?" by A. Einstein. V. "Space and Time" by H. Minkowski. VI. "On the Influence of Gravitation on the Propagation of Light" by A. Einstein. VII. "The Foundation of the General Theory of Relativity" by A. Einstein. VIII. "Hamilton's Principle and the General Theory of Relativity" by A. Einstein. IX. "Cosmological Considerations on the General Theory of Relativity" by A. Einstein. X. "Do Gravitational Fields Play an Essential Part in the Structure of the Elementary Particles of Matter?" by A. Einstein. XI. "Gravitation and Electricity" by H. Weyl.
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Editorial Review

About the Author

In addition to conducting the research that culminated in his acclaimed theories of relativity, Albert Einstein (1879-1955) taught and lectured at universities around the world. Einstein received numerous awards and honorary doctorate degrees in science, medicine, and philosophy, and he remains a towering symbol of intellectual and imaginative achievement.

It's All Relative
Around 1950, Hayward Cirker, Founder and President of Dover Publications, wrote to Einstein and asked his approval to proceed with a Dover paperback reprint of the 1923 collection of original papers on relativity by Einstein himself and others (H. A. Lorentz, H. Weyl, and H. Minkowski), which had originally been published in England. Einstein was reluctant, wondering how much interest there could possibly be in this relic of his work from 30 or more years earlier. Cirker persisted, and Einstein finally agreed — the Dover edition of *The Theory of Relativity* has been in print ever since and has been followed by many other Dover books on relativity.

The papers reprinted in this original collection will always be for the serious student the cornerstone of their Einstein library: Michelson's Interference Experiment (H. A. Lorentz); Electromagnetic Phenomena in a System Moving with any Velocity Less Than That of Light (H.A. Lorentz); On the Electrodynamics of Moving Bodies (A. Einstein); Does the Inertia of a Body Depend Upon its Energy Content? (A. Einstein); Space and Time (H. Minkowksi with notes by A. Sommerfeld); On the Influence of Gravitation on the Propagation of Light (A. Einstein); and The Foundation of the General Theory of Relativity (A. Einstein) found on pages 109–164 of this text; Hamilton's Principle and The General Theory of Relativity (A. Einstein); Cosmological Considerations on the General Theory of Relativity (A. Einstein); Do Gravitational Fields Play an Essential Part in the Structure of the Elementary Particles of Matter? (A. Einstein); and Gravitation and Electricity (H. Weyl).

In the Author's Own Words:
"How can it be that mathematics, being after all a product of human thought independent of experience, is so admirably adapted to the objects of reality?"

"What nature demands from us is not a quantum theory or a wave theory; rather, nature demands from us a synthesis of these two views which thus far has exceeded the mental powers of physicists."

"Do not be troubled by your difficulties with Mathematics, I can assure you mine are much greater." — Albert Einstein

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