Albert Einstein

The Theory of Relativity

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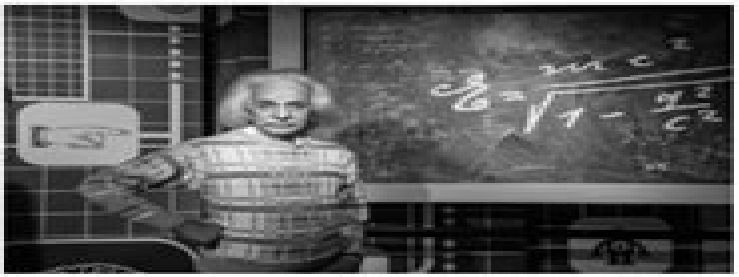
In 1915, Albert Einstein revolutionized physics. He described in the General Theory of Relativity how gravity arises when space and time writhe.



In November 1915 Albert Einstein explained a radically new world view to the Prussian Academy of Sciences with the General Theory of Relativity. Accordingly, masses and rays of light do not merely move through space and time - space and time themselves merge into a structure that constantly curves and changes. Heavy bodies distort their geometry, even light then runs on curved tracks. Extreme consequences are such exotic objects as black holes, the researchers have not understood until today, or gravitational waves whose direct detection still failed. And how Einstein's cosmos could be reconciled with the equations of quantum physics - this will probably be one of the greatest tasks of theoretical physics of the current century.

The theory of relativity is essentially about experiencing two objects that move relative to one another, hence the name: theory of relativity. The effects of relativity occur only at high speeds, at velocities comparable to the speed of light: time increases, scales shorten, and the mass of the moving object increases. This is described in the "special theory of relativity". The second possibility: they occur in the presence of large masses. This is described in the "general theory of relativity".

In addition: $E = mc^2$, which means that energy is "equivalent" to the mass. Energy can be converted to mass, and vice versa. This is the so-called "mass defect". When light atomic nuclei fuse (hydrogen to helium), the final product is slightly lighter, some of the mass has been converted to energy and released. Or when heavy atomic nuclei decay - some of the mass has been converted to energy, the end products are slightly lighter than all the ingredients.

How come?

Before the theory of relativity existed, it was thought that space and time are absolute. They do not change. They went in search of the "absolute cosmic platform", something to which one can relate his speed. As a person on the train goes at 5 km / h. But compared to the platform at 105 km / h, when the train itself runs at 100 km / h. It was thought that the "ether" would be such a suitable quiet thing. It fills the entire universe, is absolutely transparent, because the light penetrates, and is the carrier of light, which has a very high speed - so the ether would have to be extremely "tough", because only so a substance allows such high speeds. Michelson-Morley set out with a famous experiment to search for this ether - and they proved that it does not exist. There is therefore no absolute speed, only relative speeds of objects to each other. If you think that over, and Einstein did that, you get very peculiar results that made a change in the physical world picture necessary.

The requirements

The theory of relativity assumes that the speed of light is always and everywhere the same: around 300,000 km / s. That's 7 1/2 times around the earth in one second. And in addition, something amazing: Whether you fire a flashlight from a fast spaceship, or from a moving train, or from the armchair in the room - it always has this timidity. From this Einstein concluded:

Details

When a traveler moves relative to an observer, the observer will notice:

1. The time of the traveler is extended.
2. Its distances in flight direction are shortened.
3. The mass of the traveler increases.
4. The "simultaneity" is also not very clear. What is simultaneous, when light needs time to move through the universe?

These are the effects of the "special theory of relativity". It describes the behavior of space and time from the point of

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The Swiss Years Albert Einstein,1995 This volume presents Einstein s writings from the final period of his work in Switzerland Most of the material in Volume 4 documents Einstein s search for a relativistic theory of gravitation a search that ended in Berlin in the fall of 1915 with the completion of the general theory of relativity Three scientific manuscripts printed here for the first time provide insights into Einstein s efforts to generalize his original relativity theory into a theory of gravitation The first is a review article on the special theory of relativity The second consists of notes that document Einstein s research on gravitation The third manuscript contains calculations on the problem of the motion of the perihelion of Mercury The explanation of the observed anomaly of this motion was to become one of the classical tests of general relativity The existence of such a manuscript has not been known before now All three of these manuscripts along with other material in this volume add significantly to our understanding of the creation of general relativity **Einstein's Miraculous Year** Albert Einstein,2005-04-17 After 1905 physics would never be the same In those 12 months Einstein shattered many cherished scientific beliefs with five great papers that would establish him as the world s leading physicist On their 100th anniversary this book brings those papers together in an accessible format **The Collected Papers of Albert Einstein, Volume 4 (English)** Albert Einstein,1996-08 This volume presents Einstein s writings from the final period of his work in Switzerland Most of the material in Volume 4 documents Einstein s search for a relativistic theory of gravitation a search that ended in Berlin in the fall of 1915 with the completion of the general theory of relativity Three scientific manuscripts printed here for the first time provide insight into Einstein s efforts to generalize his original relativity theory into a theory of gravitation The first is a review article on the special theory of relativity The second consists of notes that document Einstein s research on gravitation The third manuscript contains calculations on the problem of the motion of the perihelion of Mercury The explanation of the observed anomaly of this motion was to become one of the classical tests of general relativity The existence of such a manuscript has not been known before now All three of these manuscripts along with other material in this volume add significantly to our understanding of the creation of general relativity This supplementary paperback volue presents only the English translations of non English materials and is not intended for use without the original language documentary edition *Relativity* Albert Einstein,2021-10 Albert Einstein s insights into how the universe works were first revealed in 1905 with the publication of four monographs One of these was his study On the Electrodynamics of Moving Bodies which introduced his theory of gravitation and his view on special relativity Continuing his inquiries he found special relativity too restrictive and so formulated his theory of general relativity in the publication of On the Relativity Principle and the Conclusions Drawn from It in 1907 A few years later he posited his general theory of relativity in his paper On the Influence of Gravitation on the Propagation of Light published in 1911 Following the validation of Einstein s theories during the solar eclipse of May 29 1919 this edition of Relativity a translation of an earlier work published in Germany was

published by Methuen in the UK and Henry Holt in the US It and the award of the 1921 Nobel Prize in Physics brought Einstein s theories to the attention of the general public *Essays in Science* Albert Einstein,1934 The Collected Papers of Albert Einstein, Volume 13 Albert Einstein,1987 A translation of selected non English texts included in Volume 13 is available in paperback Since this supplementary paperback includes only select portions of Volume 13 it is not recommended for purchase without the main volume Every document in The Collected Papers of Albert Einstein appears in the language in which it was written and this supplementary paperback volume presents the English translations of select portions of non English materials in Volume 13 This translation does not include notes or annotation of the documentary volume and is not intended for use without the original language documentary edition which provides the extensive editorial commentary necessary for a full historical and scientific understanding of the documents *Einstein's Pathway to the Special Theory of Relativity* Galina Weinstein,2015-06-18 This book pieces together the jigsaw puzzle of Einstein s journey to discovering the special theory of relativity Between 1902 and 1905 Einstein sat in the Patent Office and may have made calculations on old pieces of paper that were once patent drafts One can imagine Einstein trying to hide from his boss writing notes on small sheets of paper and according to reports seeing to it that the small sheets of paper on which he was writing would vanish into his desk drawer as soon as he heard footsteps approaching his door He probably discarded many pieces of papers and calculations and flung them in the waste paper basket in the Patent Office The end result was that Einstein published nothing regarding the special theory of relativity prior to 1905 For many years before 1905 he had been intensely concerned with the topic in fact he was busily working on the problem for seven or eight years prior to 1905 Unfortunately there are no surviving notebooks and manuscripts no notes and papers or other primary sources from this critical period to provide any information about the crucial steps that led Einstein to his great discovery In May 1905 Henri Poincar sent three letters to Hendrik Lorentz at the same time that Einstein wrote his famous May 1905 letter to Conrad Habicht promising him four works of which the fourth one Relativity was a rough draft at that point In the May 1905 letters to Lorentz Poincar presented the basic equations of his 1905 Dynamics of the Electron meaning that at this point Poincar and Einstein both had drafts of papers relating to the principle of relativity The book discusses Einstein s and Poincar s creativity and the process by which their ideas developed The book also explores the misunderstandings and paradoxes apparent in the theory of relativity and unravels the subtleties and creativity of Einstein **The Collected Papers of Albert Einstein** ,1994 This volume of The Collected Papers of Albert Einstein presents Einstein s writings for the two year period starting in October 1909 The initial date marks Einstein s departure from the Swiss Patent Office at Bern which had been his professional home for seven years and the beginning of his first academic appointment at the University of Zurich The volume concludes with the masterful report that Einstein by then a full professor at the German language university in Prague gave to the original Solvay Congress the first international meeting devoted to the problems of radiation and the quantum theory Most of Einstein s

efforts during these years went into his struggle with these ever more perplexing problems of quanta on which he made discouragingly little progress Einstein s new academic career naturally required him to teach and almost half of this volume consists of the previously unpublished notes he wrote in preparation for his lectures on mechanics on electricity and magnetism and on kinetic theory and statistical mechanics The last of these is particularly interesting in reflecting some of his research interests Several papers here are concerned with aspects of the special theory of relativity but it is Einstein s article of June 1911 that is a harbinger of things to come it contains his calculation of the bending of light in a gravitational field on the basis of his equivalence principle Martin J Klein is Bass Professor of the History of Science and Professor of Physics at Yale University and Senior Editor of The Collected Papers of Albert Einstein A J Kox teaches history of science at the University of Amsterdam J rgen Renn is Assistant Professor of Philosophy and Physics at Boston University and Robert Schulmann is Assistant Professor of History at Boston University *The collected papers of Albert Einstein* ,1996 This volume presents Einstein s writings from the final period of his work in Switzerland Most of the material in Volume 4 documents Einstein s search for a relativistic theory of gravitation a search that ended in Berlin in the fall of 1915 with the completion of the general theory of relativity Three scientific manuscripts printed here for the first time provide insight into Einstein s efforts to generalize his original relativity theory into a theory of gravitation The first is a review article on the special theory of relativity The second consists of notes that document Einstein s research on gravitation The third manuscript contains calculations on the problem of the motion of the perihelion of Mercury The explanation of the observed anomaly of this motion was to become one of the classical tests of general relativity The existence of such a manuscript has not been known before now All three of these manuscripts along with other material in this volume add significantly to our understanding of the creation of general relativity This supplementary paperback volue presents only the English translations of non English materials and is not intended for use without the original language documentary edition **The Collected Papers of Albert Einstein, Volume 2** Albert Einstein,1990-02 This volume of The Collected Papers of Albert Einstein contains the scientific work Einstein published during the first decade of his career and includes some of the most significant achievements of twentieth century physics The first paper was written in 1900 by the twenty one year old Einstein newly graduated from the Swiss Federal Polytechnical School or ETH in Zurich and still searching in vain for a job The last paper in this volume is the text of an invited lecture given in 1909 to a major scientific meeting by Einstein after he was appointed to his first academic post at the University of Zurich He had already been recognized as an important theoretical physicist on the basis of the work reprinted here particularly the three masterpieces that appeared in quick succession during 1905 Einstein s year of miracles In one of these papers Einstein showed how one could finally confirm the ancient view that matter is composed of discrete atoms and even measure the numbers and masses of these atoms In a second paper which even he referred to as very revolutionary he argued that the observed properties of thermal radiation suggest that it consists not of

waves but rather of localized particles of energy which he called energy quanta The third and most famous paper set forth the special theory of relativity solving some long standing difficulties but requiring a significant change in our understanding of those basic concepts space and time **Einstein's Annalen Papers** Jürgen Renn,2005-05-06 Ein spannender Einblick in ein St ck Wissenschaftsgeschichte B rsenblatt 3 2005 1905 in seinem Annus Mirabilis machte Albert Einstein drei Entdeckungen ber die Grundlagen der Natur die die Basis f r seinen Ruhm als Physiker bildeten Diese drei revolution ren Artikel ber die Lichtquantenhypothese die Brownsche Molekularbewegung sowie die Spezielle Relativit t wurden in der Zeitschrift Annalen der Physik ver ffentlicht Alle drei gelten heute als S ulen der modernen Wissenschaft und ihrer Anwendungen in der Technologie und sind aus der modernen Welt nicht mehr wegzudenken Der vorliegende Band pr sentiert s mtliche von Albert Einstein in der Zeitschrift Annalen der Physik ver ffentlichten Beitr ge darunter einige der wichtigsten Artikel die er jemals schrieb Enthalten sind ebenso die drei revolution ren Artikel des Jahres 1905 als Faksimileabdruck Dar ber hinaus enth lt der Band Beitr ge welche die Folgen der bahnbrechenden Ideen dieser Artikel von E mc2 bis zur Quantentheorie der spezifischen W rme aufzeigen Die Wissenschaftshistoriker J rgen Renn MPI f r Wissenschaftsgeschichte Berlin David C Cassidy Hofstra Universit t Hempstead USA Michel Janssen Universit t von Minnesota USA und Robert Rynasiewicz John Hopkins Universit t USA haben die vorliegende Sammlung durch aktuelle Artikel erg nzt und kommentiert *Einstein's Essays in Science* Albert Einstein,Alan Harris,2009-01-01 Speeches and essays in accessible everyday language profile influential physicists such as Niels Bohr and Isaac Newton They also explore areas of physics to which the author made major contributions **An Einstein Encyclopedia** Alice Calaprice,Daniel Kennefick,Robert Schulmann,2015-10-27 The complete guide to everything you ever wanted to know about Einstein This is the single most complete guide to Albert Einstein s life and work for students researchers and browsers alike Written by three leading Einstein scholars who draw on their combined wealth of expertise gained during their work on the Collected Papers of Albert Einstein this authoritative and accessible reference features more than one hundred entries and is divided into three parts covering the personal scientific and public spheres of Einstein s life An Einstein Encyclopedia contains entries on Einstein s birth and death family and romantic relationships honors and awards educational institutions where he studied and worked citizenships and immigration to America hobbies and travels plus the people he befriended and the history of his archives and the Einstein Papers Project Entries on Einstein s scientific theories provide useful background and context along with details about his assistants collaborators and rivals as well as physics concepts related to his work Coverage of Einstein s role in public life includes entries on his Jewish identity humanitarian and civil rights involvements political and educational philosophies religion and more Commemorating the hundredth anniversary of the theory of general relativity An Einstein Encyclopedia also includes a chronology of Einstein s life and appendixes that provide information for further reading and research including an annotated list of a selection of Einstein s publications and a review of selected

books about Einstein More than 100 entries cover the rich details of Einstein s personal professional and public life Authoritative entries explain Einstein s family relationships scientific achievements political activities religious views and more More than 40 illustrations include photos of Einstein and his circle plus archival materials A chronology of Einstein s life appendixes and suggestions for further reading provide essential details for further research **The Collected Papers of Albert Einstein, Volume 6** Albert Einstein,1996-07 Presented in this volume are Albert Einstein s writings from his arrival in Berlin in the spring of 1914 to take up his new position at the Prussian Academy of Sciences through the end of 1917 During these years he completed the general theory of relativity the relativistic theory of gravitation and this was surely the high point of his scientific life His writings on relativity in this volume range from general treatments of the theory to detailed calculations of specific consequences and his first attempt at a relativistic account of cosmology They also include his popular exposition of the special and general theories first published in 1917 and still a valuable account for the general reader As soon as the difficulties on the path to general relativity had been overcome Einstein returned to the riddles of the quantum theory His major clarification of the quantum theory of radiation appears here along with his lesser known contribution to the formulation of quantum conditions This volume also contains the papers describing Einstein s only experimental investigation a study of Amp re s molecular currents which he carried out with the Dutch physicist W J de Haas Before the beginning of World War I Einstein had never expressed his views on nonscientific subjects Yet one of his first reactions to this previously unthinkable general war was to sign an Appeal to Europeans urging an immediate end to hostilities Every document in The Collected Papers of Albert Einstein appears in the language in which it was written

Einstein: On the Principle of Relativity Albert Einstein,Harry Yoon,2024-04-01 What is the Principle of Relativity This short article is one of the very first scientific essays written by Einstein intended for the general non scientist audience It was originally written in 1914 for the readers of one of the most widely read newspapers in Germany at the time Einstein published his two seminal papers on special relativity in 1905 and his work was gradually being recognized In 1913 Max Planck and Walther Nernst made a trip to Zurich where Einstein had been mostly living throughout his young adult life to recruit Einstein back to Germany which he agreed to It was a triumphant return for Einstein This article was published to celebrate this occasion and his newly earned prestige Special relativity is based on the special principle of relativity or simply the principle of relativity This short newspaper article 5 pages explains what the principle of relativity is at a very high level and what kind of general interesting phenomena are predicted from the theory The predictions of special relativity have all been confirmed without exceptions As for general relativity he ended up completing his field equations of gravity at the end of 1915 and this article briefly describes why the generalization was necessary This article was originally written by Einstein in German and it is now in the public domain This short booklet attempts at a new translation to give a somewhat clearer account of what Einstein wanted to convey in his original writing A completely new English translation 2024 **The Theory**

of Relativity Albert Einstein,2015-10-20 E mc2 It may be Einstein s most well known contribution to modern science but how many people understand the thought process or physics behind this famous equation In this collection of his seven most important essays on physics Einstein guides his reader step by step through the many layers of scientific theory that formed a starting point for his discoveries By both supporting and refuting the theories and scientific efforts of his predecessors Einstein reveals in a clear voice the origins and meaning of such significant topics as physics and reality the fundamentals of theoretical physics the common language of science the laws of science and of ethics and an elementary derivation of the equivalence of mass and energy This remarkable collection allows the general reader to understand not only the significance of Einstein s masterpiece but also the brilliant mind behind it This authorized Philosophical Library ebook features a new introduction by Neil Berger and an illustrated biography of Albert Einstein which includes rare photos and never before seen documents from the Albert Einstein Archives at the Hebrew University of Jerusalem *A Student's Guide to Einstein's Major Papers* Robert E Kennedy,2012-01-19 Our understanding of the physical universe underwent a revolution in the early twentieth century evolving from the classical physics of Newton Galileo and Maxwell to the modern physics of relativity and quantum mechanics The dominant figure in this revolutionary change was Albert Einstein In a single year 1905 Einstein produced breakthrough works in three areas of physics on the size and the effects of atoms on the quantization of the electromagnetic field and on the special theory of relativity In 1916 he produced a fourth breakthrough work the general theory of relativity A Student s Guide to Einstein s Major Papers focuses on Einstein s contributions setting his major works into their historical context and then takes the reader through the details of each paper including the mathematics This book helps the reader appreciate the simplicity and insightfulness of Einstein s ideas and how revolutionary his work was and locate it in the evolution of scientific thought begun by the ancient Greek natural philosophers **Subtle is the Lord** Abraham Pais,2005-08-25 Subtle is the Lord is widely recognized as the definitive scientific biography of Albert Einstein The late Abraham Pais was a distinguished physicist turned historian who knew Einstein both professionally and personally in the last years of his life His biography combines a profound understanding of Einstein s work with personal recollections from their years of acquaintance illuminating the man through the development of his scientific thought Pais examines the formulation of Einstein s theories of relativity his work on Brownian motion and his response to quantum theory with authority and precision The profound transformation Einstein s ideas effected on the physics of the turn of the century is here laid out for the serious reader Pais also fills many gaps in what we know of Einstein s life his interest in philosophy his concern with Jewish destiny and his opinions of great figures from Newton to Freud This remarkable volume written by a physicist who mingled in Einstein s scientific circle forms a timeless and classic biography of the towering figure of twentieth century science **The Collected Papers of Albert Einstein, Volume 8 (English)** Albert Einstein,1998-07 This volume opens in spring 1914 when Einstein takes up a research professorship at the Prussian Academy of Sciences in Berlin and

closes with the collapse of the German Empire four and one half years later A good portion of the documentation which comprises more than 675 letters has only recently been discovered by the editors The letters touch on all aspects of Einstein s activities and shed new light on his inner life while enriching our understanding of his published papers presented in volumes 6 and 7 of this series The breakup of Einstein s first marriage and the divorce are presented here for the first time in all their complexity New material shows Einstein maintaining a strong sense of moral urgency throughout the war The scientific correspondence documents Einstein s struggle to find satisfactory field equations for his new gravitational theory the general theory of relativity and his continued discussion with leading physicists and mathematicians about the implications and further development of the theory Albert Einstein Peter C. Aichelburg,Roman U. Sexl,2012-12-06 The Development of the Theory of Relativity Cosmology Gravitational Radiation Black Holes The Black Hole An Imaginary Conversation with Albert Einstein Can Quantum Mechanical Description of Physical Realty Be Considered Complete Einstein s Contribution to Statistical Mechanics On the History of the Special Relativity Theory Einstein s Model for Constructing a Scientific Theory Einstein s Treatment of Theoretical Concepts Einstein s Importance to Physics Philosophy and Politics Einstein and Zionism Birth and R le of the GRG Organization and the Cultivation of Interna

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