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# The Ideas Of Einstein

**J. H. Thirring**



## The Ideas Of Einstein:

**Ideas And Opinions** Albert Einstein,1995-06-06 A collection of insightful and thought provoking essays from one of the greatest thinkers of the twentieth century A new edition of the most definitive collection of Albert Einstein s popular writings gathered under the supervision of Einstein himself The selections range from his earliest days as a theoretical physicist to his death in 1955 from such subjects as relativity nuclear war or peace and religion and science to human rights economics and government *The Ideas of Einstein's Theory* Hans Thirring,1922 **The Ideas of Einstein** David E. Fisher,1980 Introduces the ideas of Albert Einstein focusing on the theory of relativity **The Ideas of Einstein's Theory** Hans Thirring,1921 **A Student's Guide to Einstein's Major Papers** Robert E Kennedy,2012-01-19 In 1905 Albert Einstein produced breakthrough work in three major areas of physics atoms and Brownian motion quanta and the special theory of relativity followed in 1916 by the general theory of relativity This book develops the detail of the papers including the mathematics to guide the reader in working through them *The Ideas of Einstein's Theory* Hans Thirring,Rhoda A B Russell,2015-08-12 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant *The Ideas of Einstein's Theory* J. H. Thirring,2015-06-02 Excerpt from *The Ideas of Einstein s Theory* The Theory of Relativity in Simple Language The beginning of the twentieth century presented us with a scientific theory which quickly became celebrated all over the world the Einstein Theory of Relativity Whoever is interested in the evolution of mental progress will desire to know more of this theory surrounded though it be by a mailcoat of mathematical formul that presents to every non mathematician an apparent barrier to further investigation Such a truly great idea however which contains matter of interest to mankind at large must be capable of being rendered clear and intelligible without consisting solely of a maze of mathematical formul This certainly applies to the Theory of Relativity all the essential traits of the theory can be made clear without the aid of mathematics to those who have a fair amount of geometrical training and in point of fact a number of such popular expositions have already found their way into current literature About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important

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*The Ideas of Einstein's Theory* J. H. J H Thirring, James Zimmerhoff, 2017-09-15

THE beginning of the twentieth century presented us with a scientific theory which quickly became celebrated all over the world the Einstein Theory of Relativity Whoever is interested in the evolution of mental progress will desire to know more of this theory surrounded though it be by a mailcoat of mathematical formulae that presents to every non mathematician an apparent barrier to further investigation Such a truly great idea however which contains matter of interest to mankind at large must be capable of being rendered clear and intelligible without consisting solely of a maze of mathematical formulae This certainly applies to the Theory of Relativity all the essential traits of the theory can be made clear without the aid of mathematics to those who have a fair amount of geometrical training and in point of fact a number of such popular expositions have already found their way into current literature The purpose of the present book is not to give an account of mere details appertaining to the theory vi THE IDEAS OF EINSTEIN S THEORY but rather to give a complete and coherent exposition of the whole at the same time avoiding all mathematical accessories The reader must not only be able to understand what is meant when we maintain that the space surrounding gravitational masses suffers curvature he must be made to see how Einstdn was bound to arrive at such a conclusion Hence we must follow up the logical connection of the whole theory commencing with the Special Principle of Relativity in its most simple and primitive form and leading up to the far reaching speculations on the finiteness of the universe along the path taken originally by Einstein In order to remain intelligible to the layrhan logical operations based on mathematics must be passed over and it suffices to say that the suppositions A and B lead us with the help of mathematical deductions to the fact C and later on to D and so on By arguing thus and inducing conclusions to follow each other in right succession like the links of a chain we shall perhaps enable the reader to gain a more lucid view of the matter than by going deeply into mathematical operations and losing count of what is most essential The present book though written primarily for lajmien may also be useful to those who are versed in the theory from the mathematical point of view but who may find it convenient to supplement their knowledge of the general aspects of the subject One thing more must be considered A serious PREFACE vii exposition of the theory will not only have to lay stress on the fact of how very revolutionary Einstein s theory is from the point of view of principle and theory but must also indicate how very non revolutionary it appears from a practical point of view The phs ical results of the theory which appertain to those pheno mena with which we have to do in 4aily and in technical life diverge so slightly from those of former theories that these last can be further retained with fuU justification for aU practical purposes The astronomer therefore with few exceptions wiU continue to calculate according to the

Newtonian theory the man of science will go on using Maxwell's equations and little will be altered But the mental foundations of the complete system of physics have been entirely changed This will be elucidated by numerical examples so as to dispel wrong and handful ideas of the theory on the part of the reader J H T Einstein's Struggles with Quantum Theory Dipankar Home, Andrew Whitaker, 2007-11-13 This book presents an account of all aspects of Einstein's achievements in quantum theory his own views and the progress his work has stimulated since his death While some chapters use mathematics at an undergraduate physics level a path is provided for the reader more concerned with ideas than equations and the book will benefit to anybody interested in Einstein and his approach to the quantum

**The Ideas of Einstein's Theory** James Zimmerhoff, J. H. Thirring, 2017-09-15 THE beginning of the twentieth century presented us with a scientific theory which quickly became celebrated all over the world the Einstein Theory of Relativity Whoever is interested in the evolution of mental progress will desire to know more of this theory surrounded though it be by a mailcoat of mathematical formulae that presents to every non mathematician an apparent barrier to further investigation Such a truly great idea however which contains matter of interest to mankind at large must be capable of being rendered clear and intelligible without consisting solely of a maze of mathematical formulae This certainly applies to the Theory of Relativity all the essential traits of the theory can be made clear without the aid of mathematics to those who have a fair amount of geometrical training and in point of fact a number of such popular expositions have already found their way into current literature The purpose of the present book is not to give an account of mere details appertaining to the theory vi THE IDEAS OF EINSTEIN'S THEORY but rather to give a complete and coherent exposition of the whole at the same time avoiding all mathematical accessories The reader must not only be able to understand what is meant when we maintain that the space surrounding gravitational masses suffers curvature he must be made to see how Einstein was bound to arrive at such a conclusion Hence we must follow up the logical connection of the whole theory commencing with the Special Principle of Relativity in its most simple and primitive form and leading up to the far reaching speculations on the finiteness of the universe along the path taken originally by Einstein In order to remain intelligible to the layman logical operations based on mathematics must be passed over and it suffices to say that the suppositions A and B lead us with the help of mathematical deductions to the fact C and later on to D and so on By arguing thus and inducing conclusions to follow each other in right succession like the links of a chain we shall perhaps enable the reader to gain a more lucid view of the matter than by going deeply into mathematical operations and losing count of what is most essential The present book though written primarily for laymen may also be useful to those who are versed in the theory from the mathematical point of view but who may find it convenient to supplement their knowledge of the general aspects of the subject One thing more must be considered A serious PREFACE vii exposition of the theory will not only have to lay stress on the fact of how very revolutionary Einstein's theory is from the point of view of principle and theory but must also indicate how very non revolutionary it appears from a practical

point of view The physical results of the theory which appertain to those phenomena with which we have to do in daily and in technical life diverge so slightly from those of former theories that these last can be further retained with justification for all practical purposes The astronomer therefore with few exceptions will continue to calculate according to the Newtonian theory the man of science will go on using Maxwell's equations and little will be altered But the mental foundations of the complete system of physics have been entirely changed This will be elucidated by numerical examples so as to dispel wrong and fanciful ideas of the theory on the part of the reader J H T

**Introducing Einstein's Relativity** Ray d'Inverno, James Vickers, 2022-05-12 There is little doubt that Einstein's theory of relativity captures the imagination Not only has it radically altered the way we view the universe but the theory also has a considerable number of surprises in store This is especially so in the three main topics of current interest that this book reaches namely black holes gravitational waves and cosmology The main aim of this textbook is to provide students with a sound mathematical introduction coupled to an understanding of the physical insights needed to explore the subject Indeed the book follows Einstein in that it introduces the theory very much from a physical point of view After introducing the special theory of relativity the basic field equations of gravitation are derived and discussed carefully as a prelude to first solving them in simple cases and then exploring the three main areas of application This new edition contains a substantial extension of content that considers new and updated developments in the field Topics include coverage of the advancement of observational cosmology the detection of gravitational waves from colliding black holes and neutron stars and advancements in modern cosmology Einstein's theory of relativity is undoubtedly one of the greatest achievements of the human mind Yet in this book the author makes it possible for students with a wide range of abilities to deal confidently with the subject Based on both authors' experience teaching the subject this is achieved by breaking down the main arguments into a series of simple logical steps Full details are provided in the text and the numerous exercises while additional insight is provided through the numerous diagrams As a result this book makes an excellent course for any reader coming to the subject for the first time while providing a thorough understanding for any student wanting to go on to study the subject in depth

**Einstein's Method** Paul A. Klevgard, 2008-09 Why do photons and speeding electrons have both wave features and particle features when common sense tells us that they should be either particle or wave and not an amalgam of both And why is the velocity of light constant for all observers These central questions of physics are reexamined in a new approach using an adaptation of an old method In quantum physics Einstein's chief method of inquiry between 1905 and 1925 involved a comparison of the thermodynamic properties of matter quanta and radiation quanta photons In these pages the author seeks to extend that method beyond thermodynamics to see what new insights it can offer us

*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 Poincaré 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 Poincaré presented the basic equations of his 1905 Dynamics of the Electron meaning that at this point Poincaré and Einstein both had drafts of papers relating to the principle of relativity. The book discusses Einstein's and Poincaré'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.

**Einstein's Universe** Barrett Williams, ChatGPT, 2025-03-29 Unlock the mysteries of the cosmos with Einstein's Universe an illuminating journey through the life and groundbreaking theories of one of history's greatest minds. This captivating eBook takes you deep into Albert Einstein's world from his challenging early years in Germany and Switzerland to the pivotal moments that reshaped our understanding of physics forever. Delve into Einstein's revolutionary ideas with Chapter 2's exploration of the Annus Mirabilis Papers where the Special Theory of Relativity emerged like a beacon in the night challenging the very foundation of Newtonian physics. Discover the profound simplicity behind the complex mathematics of the General Theory of Relativity in Chapter 3 and grasp the far-reaching impact of these concepts on our understanding of space and time. Explore Einstein's contributions to quantum mechanics and unravel the mysteries of phenomena like the Photoelectric Effect in Chapter 4. Venture even further with Chapter 5's examination of time dilation black holes and gravitational waves while Chapter 6 explores cosmology and the evolving universe. Beyond his scientific endeavors Einstein's Universe sheds light on his philosophical introspections and influential public persona. Chapter 8 delves into the philosophical implications of his work challenging our perceptions of reality and the nature of time. Chapters on his personal life reveal a complex figure who was not only a brilliant scientist but also a passionate pacifist and humanitarian. Einstein's Universe doesn't stop at history it connects the past with the present showing how the echoes of Einstein's genius resonate in today's technological advances from GPS systems to laser technology. Inspire your own curiosity with Chapter 11's user-friendly explanations of Einstein's theories and see how these complex ideas apply to everyday phenomena. This eBook invites you to reflect on the timelessness of Einstein's vision and encourages a relentless pursuit of knowledge and curiosity. Embark on this

intellectual odyssey and let Einstein's Universe forever change the way you view the world

**Einstein's Relativity and Beyond** Jong-Ping Hsu, 2000 The purposes of this book are 1 to explore and expound relativity physics and four dimensional symmetry from the logically simplest viewpoint by making one single postulate instead of two and 2 to indicate the simplest generalization of the Lorentz transformation in order to cope with frames with constant linear accelerations The fundamentally new ideas of the first purpose are developed on the basis of the term paper of a Harvard physics undergraduate They lead to an unexpected affirmative answer to the long standing question of whether it is possible to construct a relativity theory without postulating the constancy of the speed of light and retaining only the first postulate of special relativity This question was discussed in the early years following the discovery of special relativity by many physicists including Ritz Tolman Kunz Comstock and Pauli all of whom obtained negative answers Furthermore the new theory of relativity indicates the truly universal and fundamental constants in physics and provides a broad view of relativistic physics beyond special relativity It substantiates the view and sheds light on the understanding that the four dimensional symmetry framework can accommodate many different concepts of physical time including common time and Reichenbach's general concept of time This logically simplest viewpoint of relativity allows a natural extension of the physics of particles and fields from inertial frames to noninertial frames in which the speed of light is not constant New predictions in physics resulting from this new viewpoint are discussed The book is based on papers by the author and his collaborators in Physics Letters A Nuovo Cimento B and Physical Review A and D

**Re-opening Einstein's Thought** Conrad P. Pritscher, 2008-01-01 During an interview conducted late in his life the legendary Swedish Film director Ingmar Bergman was asked about the coming of age He likened aging to hiking up the side of a mountain the longer one walks the more winded one becomes he noted But he added the view Conrad Pritscher provides us with a breathtaking view of education as it is and can be one focal point of which is Albert Einstein's wise views on the subject

**Dictionary of Modern American Philosophers** John R. Shook, 2005-01-01 The Dictionary of Modern American Philosophers includes both academic and non academic philosophers and a large number of female and minority thinkers whose work has been neglected It includes those intellectuals involved in the development of psychology pedagogy sociology anthropology education theology political science and several other fields before these disciplines came to be considered distinct from philosophy in the late nineteenth century Each entry contains a short biography of the writer an exposition and analysis of his or her doctrines and ideas a bibliography of writings and suggestions for further reading While all the major post Civil War philosophers are present the most valuable feature of this dictionary is its coverage of a huge range of less well known writers including hundreds of presently obscure thinkers In many cases the Dictionary of Modern American Philosophers offers the first scholarly treatment of the life and work of certain writers This book will be an indispensable reference work for scholars working on almost any aspect of modern American thought

**Einstein's Enigma or Black Holes in My Bubble Bath** C.V. Vishveshwara, 2006-11-03



Einstein's Enigma or Black Holes in My Bubble Bath is a humorous and informal rendition of the story of gravitation theory from the early historic origins to the latest developments in astrophysics focusing on Albert Einstein's theory of general relativity and black hole physics. Through engaging conversations and napkin scribbled diagrams come tumbling the rudiments of relativity, spacetime and much of modern physics narrated with high didactic and literary talent and each embedded in casual lessons given by a worldly astrophysicist to his friend. Join the intellectual fun and exalt in the frothy ideas while vicariously taking relaxing baths in this magical bathtub. Prof. C. V. Vishveshwara is a renowned theoretical physicist who participated in the golden age of black hole physics making pioneering contributions. Also an enthusiastic teacher and planetarium director, he has written several popular level articles, scripts for planetarium shows and produced documentary movies on science. *The New Universe* Baker Brownell, 1926 **Einstein's Legacy** Galina Weinstein, 2025-02-05

This book offers a comprehensive exploration into the intertwined realms of Einstein's theory of general relativity, the discoveries of black holes and the quantum conundrums that challenge our understanding of the universe. It delves into the fascinating journey from the birth of general relativity to the cutting edge debates surrounding black holes, wormholes and quantum physics. The narrative weaves through the historical milestones including Schwarzschild's 1916 solution, the emergence of black holes in theoretical physics and the ongoing quest to reconcile general relativity with quantum mechanics. Central to the book is exploring the information paradox and its implications for modern physics, shedding light on the profound questions and theoretical challenges that have captivated physicists for decades. It also critically examines the ER=EPR conjecture, a pivotal idea proposed by Leonard Susskind and Juan Maldacena, which suggests a deep connection between entangled quantum particles and the structure of spacetime. In addition, the book engages with contemporary theoretical experiments on wormholes framed within Nancy Cartwright's philosophical theories, offering a unique perspective on the reliability and interpretation of these groundbreaking scientific concepts. The main topics covered are not only crucial for understanding the universe but also embody the ongoing quest for a unified theory in physics. They represent the cutting edge of scientific inquiry where the mysteries of black holes, the fabric of spacetime and the perplexities of quantum mechanics converge. This book is designed for physicists, historians of science and academically inclined readers interested in the evolution of theoretical physics and the groundbreaking ideas that have shaped our understanding of the cosmos. It offers a detailed yet accessible narrative, making it an invaluable resource for anyone seeking to grasp the complexities and triumphs of modern physics.

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