

Classroom Assessment For Students In Special And General Education 3rd Edition

Relativity - the Special and General Theory/ Sidelights on RelativityRelativity - The Special and General TheoryEinstein's Space-TimeThe StandardRelativity -
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relativity the special and general theory sidelights on relativity is a compilation of two classic albert einstein physics papers special relativity is a theory of the
structure of spacetime it was introduced in einstein s 1905 paper on the electrodynamics of moving bodies for the contributions of many other physicists see
history of special relativity special relativity is based on two postulates which are contradictory in classical mechanics the laws of physics are the same for all
observers in uniform motion relative to one another principle of relativity the speed of light in a vacuum is the same for all observers regardless of their relative

motion or of the motion of the light source the resultant theory copes with experiment better than classical mechanics for instance postulate 2 explains the results of the michelson morley experiment moreover the theory has many surprising and counterintuitive consequences some of these are relativity of simultaneity two events simultaneous for one observer may not be simultaneous for another observer if the observers are in relative motion time dilation moving clocks are measured to tick more slowly than an observer's stationary clock length contraction objects are measured to be shortened in the direction that they are moving with respect to the observer maximum speed is finite no physical object message or field line can travel faster than the speed of light in a vacuum the effect of gravity can only travel through space at the speed of light not faster or instantaneously mass energy equivalence $E = mc^2$ energy and mass are equivalent and transmutable relativistic mass idea used by some researchers the defining feature of special relativity is the replacement of the galilean transformations of classical mechanics by the lorentz transformations general relativity is a theory of gravitation developed by einstein in the years 1907 1915 the development of general relativity began with the equivalence principle under which the states of accelerated motion and being at rest in a gravitational field for example when standing on the surface of the earth are physically identical the upshot of this is that free fall is inertial motion an object in free fall is falling because that is how objects move when there is no force being exerted on them instead of this being due to the force of gravity as is the case in classical mechanics this is incompatible with classical mechanics and special relativity because in those theories inertially moving objects cannot accelerate with respect to each other but objects in free fall do so to resolve this difficulty einstein first proposed that spacetime is curved in 1915 he devised the einstein field equations which relate the curvature of spacetime with the mass energy and any momentum within it some of the consequences of general relativity are clocks run slower in deeper gravitational wells this is called gravitational time dilation orbits precess in a way unexpected in newton's theory of gravity this has been observed in the orbit of mercury and in binary pulsars rays of light bend in the presence of a gravitational field rotating masses drag along the spacetime around them a phenomenon termed frame dragging the universe is expanding and the far parts of it are moving away from us faster than the speed of light technically general relativity is a theory of gravitation whose defining feature is its use of the einstein field equations the solutions of the field equations are metric tensors which define the topology of the spacetime and how objects move inertially

relativity the special and the general theory began as a short paper and was eventually published as a book written by albert einstein with the aim of giving an exact insight into the theory of relativity to those readers who from a general scientific and philosophical point of view are interested in the theory but who are not conversant with the mathematical apparatus of theoretical physics it was first published in german in 1916 and later translated into english in 1920 it is divided into 3 parts the first dealing with special relativity the second dealing with general relativity and the third dealing with considerations on the universe as a whole

this excellent textbook offers a unique take on relativity theory setting it in its historical context ideal for those interested in relativity and the history of physics

the book contains a complete account of special relativity that begins with the historical analysis of the reasons that led to a change in our view of space and time its aim is to foster a deep understanding of relativistic spacetime and its consequences for dynamics

relativity the special and general theory by albert einstein the purpose of mechanics is to describe how bodies change their position in space with time i should load my conscience with grave sins against the sacred spirit of lucidity were i to formulate the aims of mechanics in this way without serious reflection and detailed explanations let us proceed to disclose these sins we are delighted to publish this classic book as part of our extensive classic library collection many of the books in our collection have been out of print for decades and therefore have not been accessible to the general public the aim of our publishing program is to facilitate rapid access to this vast reservoir of literature and our view is that this is a significant literary work which deserves to be brought back into print after many decades the contents of the vast majority of titles in the classic library have been scanned from the original works to ensure a high quality product each title has been meticulously hand curated by our staff our philosophy has been guided by a desire to provide the reader with a book that is as close as possible to ownership of the original work we hope that you will enjoy this wonderful classic work and that for you it becomes an enriching experience

how is this book unique font adjustments biography included unabridged 100 original content illustrated about relativity the special and general theory by albert einstein according to einstein himself this book is intended to give an exact insight into the theory of relativity to those readers who from a general scientific and philosophical point of view are interested in the theory but who are not conversant with the mathematical apparatus of theoretical physics when he wrote the book in 1916 einstein s name was scarcely known outside the physics institutes having just completed his masterpiece the general theory of relativity which provided a brand new theory of gravity and promised a new perspective on the cosmos as a whole he set out at once to share his excitement with as wide a public as possible in this popular and accessible book

the work of a master relativity the special and the general theory a popular exposition volume one is albert einstein s own attempt to present his theories of relativity to non physicists the book is composed of three parts part one pr

revisiting india s past is commemoration volume presented to prof vijay kumar thakur he was a renowned historian in india on his eighty two birth anniversary 15th july 1941 these articles are in other way serve as garland of flowers to decor prof vijay kumar thakur a great scholar in history buddhism epigraphy and culture there are more than 30 articles shedding light on indian historical studies this prestigious volume contains a wide spectrum of research articles covering history feudalism science and technology epigraphy and numismatics buddhism historiography tourism modern history and trade economic history folklore literature and culture this volume containing a good collection of research papers contributed by renowned authors will serve as an important source of

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