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The Mathematics of Special Relativity Jared Ruiz Advised by Dr. Steven Kent May 7, 2009 1. 1 Origins of Relativity When hearing the words "theory of relativity," most immediately think of the equation $E=mc^2$, or Albert Einstein. While this is not a bad thing, ample appreciation is oftentimes not given where

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Based on courses taught at the University of Dublin, Carnegie Mellon University, and mostly at Simon Fraser University, this book presents the special theory of relativity from a mathematical point of view. It begins with the axioms of the Minkowski vector space and the flat spacetime manifold.

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J J Gray, Poincaré, Einstein, and the theory of special relativity, Math. Intelligencer 17 (1) (1995), 65-67. C W Kilmister, Relativity, in I Grattan-Guinness (ed.), Companion Encyclopedia of the History and Philosophy of the Mathematical Sciences (London, 1994), 1235-1241.

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Special functions are particular mathematical functions that have more or less established names and notations due to their importance in mathematical analysis, functional analysis, geometry, physics, or other applications.. The term is defined by consensus, and thus lacks a general formal

definition, but the List of mathematical functions contains functions that are commonly accepted as special.

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It's a specialised work, in the sense of Eddington's "The Mathematical Theory of Relativity" : The maths are difficult ; the derivations are dense and at many instances incomplete, forcing the reader to second-guessing exercises ; Katti's choice of using Jacobian-style symbols instead of the classical partial derivatives, makes his exposition of tensors even nastier than it usually is ; his ...

~~An Overview of the Relationship between Group Theory and ...~~

This book offers a presentation of the special theory of relativity that is mathematically rigorous and yet spells out in considerable detail the physical significance of the mathematics. It treats, in addition to the usual menu of topics one is accustomed to finding in introductions to special relativity, a wide variety of results of more contemporary origin.

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Advances in mathematical physics during the 20th century led to the discovery of a relationship between group theory and representation theory with the theory of special functions. Specifically, it was discovered that many of the special functions are (1) specific matrix elements of matrix representations of Lie groups, and (2) basis

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Mathematical Theory of Special and General Relativity 1st Edition by Mr Ashok N Katti (Author) 4.3 out of 5 stars 21 ratings. ISBN-13: 978-1530501991. ISBN-10: 1530501997. Why is ISBN important? ISBN. This bar-code number lets you verify that you're getting exactly the right version or edition of a book.

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In physics, the special theory of relativity, or special relativity for short, is a scientific theory regarding the relationship between space and time. In Albert Einstein's original treatment, the theory is based on two postulates: The laws of physics are invariant (that is, identical) in all inertial frames of reference (that is, frames of reference with no acceleration).

~~Special Relativity — from Eric Weisstein's World of Physics~~

This Special Issue invites papers focusing on the qualitative theory of systems of fractional-order differential equations or difference equations, as well as fractional differential inclusions (including stability and instability properties, asymptotic behavior of solutions, asymptotic periodicity, chaotic behavior, existence, uniqueness and multiplicity of solutions, etc.) as well as their ...

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Special relativity is limited to objects that are moving with respect to inertial frames of reference—i.e., in a state of uniform motion with respect to one another such that one cannot, by purely mechanical experiments, distinguish one from the other. Beginning with the behaviour of light (and all other electromagnetic radiation), the theory of special relativity draws conclusions that are ...

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Special relativity is a theory proposed by Albert Einstein that describes the propagation of matter and light at high speeds. It was invented to explain the observed behavior of electric and magnetic

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fields, which it beautifully reconciles into a single so-called electromagnetic field, and also to resolve a number of paradoxes that arise when considering travel at large speeds.

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