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In Physics introduction to relativistic continuum mechanics  
5C5117, 3 p, period 4, spring 1996 Relativistic conditions prevail

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when either temperatures are so high, that the thermal energy is no longer negligible compared to the rest mass energy or when the gravitational field is so strong, that it

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Introduction to relativistic kinematics and the concept of mass Mass



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is one of the most fundamental concepts in physics. When a new particle is discovered (e.g. the Higgs boson), the first question physicists will ask is, "What is its mass?" Classical physics ( $v \ll c$ )  
 $T = mv^2/2$   $2 m = 2T/v$   $p = mv$   $m = p/v$   $T = p^2/2m$   $m = p^2/2T$

Introduction to Relativistic Mechanics and the Concept of Mass

Chapter 01: Introduction 11 Special Relativity Correctly describes motion of objects moving near the speed of light Modifies the traditional concepts of space, time, and energy Shows the speed of light is the upper limit for the speed of an object Shows mass and energy are related Lecture 01 Chapter 01: Introduction 12

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Introduction to Tensor Calculus and Continuum Mechanics. by J.H. Heinbockel Department of Mathematics and Statistics Old Dominion University. PREFACE This is an introductory text which presents fundamental concepts from the subject areas of tensor calculus, differential geometry and continuum mechanics.

Introduction to Tensor Calculus and Continuum Mechanics

In physics, relativistic mechanics refers to mechanics compatible

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with special relativity and general relativity. It provides a non-quantum mechanical description of a system of particles, or of a fluid, in cases where the velocities of moving objects are comparable to the speed of light  $c$ . As a result, classical mechanics is extended correctly to particles traveling at high velocities and energies, and provides a consistent inclusion of electromagnetism with the mechanics of particles. This was

## Relativistic mechanics - Wikipedia

Albert Einstein, by insisting on a fundamental rethinking of the concepts of space and time, and the relativity of motion, in his special theory of relativity (1905) was able to resolve the apparent conflicts between optics and Newtonian mechanics. In particular, special relativity provides the necessary framework for describing

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the motion of rapidly moving objects (speed greater than  $v > 0.1 c$  ).

## 1.1: Introduction - Physics LibreTexts

Relativistic mechanics, science concerned with the motion of bodies whose relative velocities approach the speed of light  $c$ , or whose kinetic energies are comparable with the product of their masses  $m$  and the square of the velocity of light, or  $mc^2$ .

Relativistic mechanics | physics | Britannica

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