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Using it we formulated covariant equations of motion, a deformed Euler-Lagrange equation, and relativistic Hamiltonian mechanics. We also formulate a modified local Lorentz transformation, such that the metric at a point is invariant only under the transformation defined at that point, and derive the formulae for time-dilation, length contraction, and gravitational redshift.

Relativistic mechanics - Wikipedia

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 mc2. Such bodies are said to be relativistic, and when

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A fully relativistic treatment of the quantum mechanics of particles requires the introduction of quantum field theory, that is to say, the quantum mechan ics of systems with an infinite number of degrees of freedom. This is because the relativistic equivalence of mass and energy plus the quantum

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Relativistic mechanics is the mechanics based on the Einstein Principle of Relativity. It reduces to Newtonian mechanics in the limit $\{c \rightarrow \infty\}$. We start from discussing the case of a free point-like particle and we then move to multi-body systems and fields.

Optics of Flames. By F. J. WEINBERG. Butterworths, 1963 ...

Relativistic Quantum Mechanics and Introduction to Field Theory by Francisco J. Yndurain, Jan 21, 2012, Springer edition, paperback

Relativistic Mechanics | SpringerLink

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Special relativity - Wikipedia

We examine the relationship between the mathematical structures of classical mechanics, quantum mechanics, and special relativity, with a view toward building a consistent framework for all three. The usual idea of "canonical quantization," with its emphasis on the transition from functions over classical phase space to operators, appears to be inconsistent with relativistic covariance.

Relativistic Quantum Mechanics. Wave Equations - Springer

This updated and revised fourth edition covers all topics in mechanics from elementary Newtonian mechanics, canonical and rigid body mechanics to relativistic mechanics and nonlinear dynamics. In particular, symmetries and invariance principles, geometrical structures and continuum mechanics play an important role.

NOTATION FOR RELATIVISTIC QUANTUM MECHANICS

For classical dynamics at relativistic speeds, see relativistic mechanics.. Relativistic dynamics refers to a combination of relativistic and quantum concepts to describe the relationships between the motion and properties of a relativistic system and the forces acting on the system. What distinguishes relativistic dynamics from other physical theories is the use of an invariant scalar ...

Relativistic Collisions of Structured Atomic Particles ...

Special relativity can be combined with quantum mechanics to form relativistic quantum mechanics and quantum electrodynamics. How general relativity and quantum mechanics can be unified is one of the unsolved problems in physics ; quantum gravity and a " theory of everything ", which require a unification including general relativity too, are active and ongoing areas in theoretical research.

Mechanics | Springer for Research & Development

In physics, relativistic mechanics refers to mechanics compatible with special relativity (SR) and general relativity (GR). 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 ...

Relativistic Quantum Mechanics and Introduction to Field ...

Springer-Verlag, 1964. 342 pp. DM 67.50. Proceedings of the 1964 Heat Transfer and Fluid Mechanics Institute. Edited by W. H. G IEDT and S. L EVY. Stanford University Press, 1964. 275pp. 70 s. Relativistic Fluid Mechanics and Magnetohydrodynamics. Edited by R. W ASSERMAN and C. W ELLS. Academic Press, 1963. 241 pp. 68 s. Hydraulics and Fluid ...

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Relativistic Quantum Mechanics and Introduction to Field Theory This edition published in Jan 21, 2012 by Springer

Relativistic Quantum Mechanics and Introduction ... - Springer

Relativistic Quantum Mechanics. Wave Equations concentrates mainly on the wave equations for spin-0 and spin-1/2 particles. Chapter 1 deals with the Klein-Gordon equation and its properties and applications. The chapters that follow introduce the Dirac equation, investigate its covariance