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Collana	World Scientific series in contemporary chemical physics ; ; v. 22
Altri autori (Persone)	MignaniRoberto
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Dedication; Preface; Contents; I Generalizing Special Relativity; 1 An Axiomatic View to Special Relativity; 2 Deformed Minkowski Space-Time; 3 Description of Interactions by Energy-Dependent Metrics; II Relativity in a Deformed Space-Time; 4 Generalized Principle of Relativity and Lorentz Transformations; 5 Relativistic Kinematics in a Deformed Minkowski Space; 6 Wave Propagation in a Deformed Space-Time; III Metric Description of Fundamental Interactions; 7 Nonlocal Effects in Electromagnetic Interaction; 8 Energy-Dependent Metric for Gravitation; 9 Weak Interaction; 10 Strong Interaction 11 Metrics of InteractionsIV Breakdown of Local Lorentz Invariance; 12 Experimental Tests of Local Lorentz Invariance; 13 A New Electromagnetic Test of LLI; 14 The Gravitational Mass of Electron from Geometry; 15 Toward the Fifth Dimension; References; Index
Sommario/riassunto	Special Relativity (SR) is essentially grounded on the properties of space-time, i.e. isotropy of space and homogeneity of space and time (as a consequence of the equivalence of inertial frames) and on the Galilei principle of relativity.