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Autore	Rauscher Elizabeth A
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Altri autori (Persone)	AmorosoRichard L
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Nota di contenuto	Preface; Contents; 1. Introduction - Orbiting the Moons of Pluto; 1.1 Introduction; 1.2 Multidimensional Minkowski Space; References; 2.

Structure, Properties and Implications of Complex Minkowski Spaces; 2.1 Some Predictions of Complex Geometries; 2.2 Multidimensional Geometric Models and Macroscopic Remote Connectedness; 2.3 The Lorentz Condition in Complex 8-Space Geometry and Tachyonic Signaling; 2.4 Velocity of Propagation in Complex 8-Space; 2.5 Kaluza-Klein Geometries: A Possible Unification of Electro- magnetic and Gravitational Phenomena
2.6 Additional Thoughts on Current Physical TheoryReferences; 3. Major Principles of Physics: Poincare Invariance, Analyticity, Unitarity and Complex Minkowski Space; 3.1 Major Principles of Physics; References; 4. Nonlocal Interconnectedness as a Fundamental Principle of Reality; 4.1 Bell's Theorem and Its Experimental Verification; 4.2 More Recent Long Distance Confirmations of Bell's Nonlocality; 4.3 Implications of Bell's Nonlocality Theorem; 4.4 Conceptual and Philosophical Implications of Bell's Theorem; 4.4.1 Bell's Theorem; 4.4.2 Principle of Local Causes
4.4.3 Some Possible Conclusions About Bell's Theorem4.4.4 Contra-Factual Definiteness Fails; 4.4.5 Possible Interpretations of the Wave Function, Y; 4.4.6 Objections to the Reality of Quantum Theory; 4.4.7 Locality Fails; 4.4.8 Concluding Remarks; 4.5 Other Nonlocal Interactive Phenomenon and the Particle-Wave "Paradox" Resolved; 4.5.1 Young's Double Slit Experiment and Its Extension, the Wheeler Delayed Choice Experiment; 4.5.2 Delayed Choice as an Extension of Young's Double Slit Experiment; 4.5.3 The Aharanov-Bohm Experiment, Fields and Potentials as Mechanisms of Non-Local Interactions
4.5.4 Some Topics for Interference Experiments4.5.5 Ernst Mach, Frames of Reference and Nonlocality; 4.6 Conclusion; References and Notes; 5. The Complexification of Maxwell's Equations; 5.1 Complex Electromagnetic Fields; 5.2 Complex Electromagnetic Variables in Complex Multidimensional Spaces; 5.3 Complex Electromagnetic Field Vectors, Virtual Energy States and Magnetic Monopole Interpretations; 5.4 Higgs Field Magnetic Monopole; 5.5 Some Further Speculations on Monopole Structures; 5.6 The Structure of Non-Hertzian Waves in Complex Geometries and Electromagnetic Energy Transmission
5.7 Summary and Concluding RemarksReferences and Notes; 6. Vector and Scalar Potentials, Advanced and Retarded Waves and Nonlocal Phenomena; 6.1 Vector and Scalar Potentials and Fields; 6.2 Advanced and Retarded Solutions; References; 7. The Complex Form of Relativistic Maxwell's Equations; 7.1 Relativistic Conditions for Maxwell's Equations in Complex Geometries and Invariance of the Line Element; 7.2 Complex E and B in Real 4-Space and the Complex Lorentz Condition; 7.3 Complex Electromagnetic Forces in a Gravitational Field; References
8. Real and Complex Amended Maxwell's Equations for Non-Abelian Gauge Groups

Sommario/riassunto

The Maxwell, Einstein, Schrodinger and Dirac equations are considered the most important equations in all of physics. This volume aims to provide new eight- and twelve-dimensional complex solutions to these equations for the first time in order to reveal