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FLUCTUATIONAL ESCAPE AND RELATED PHENOMENA IN NONLINEAR OPTICAL SYSTEMS; BELTRAMI VECTOR FIELDS IN ELECTRODYNAMICS-A REASON FOR REEXAMINING THE STRUCTURAL FOUNDATIONS OF CLASSICAL FIELD PHYSICS?; CONSTANCY OF VELOCITY OF LIGHT AND STOCHASTIC BACKGROUND; ENERGY FOR THE FUTURE: HIGH-DENSITY CHARGE CLUSTERS; THE SUPERLUMINAL THEORY AND EFFECTS; SUPERLUMINAL EFFECTS AND TACHYON THEORY; TOPOLOGICAL APPROACHES TO ELECTROMAGNETISM; AUTHOR INDEX; SUBJECT INDEX

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Sommario/riassunto

Significant advances have occurred in the field since the previous edition, including advances in light squeezing, single photon optics, phase conjugation, and laser technology. The laser is essentially responsible for nonlinear effects and is extensively used in all branches of science, industry, and medicine.

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