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Nota di contenuto	Summary of the Omega-theory -- Introduction -- I. Cosserat continuum theory of faulting -- Cosserat continuum -- The multiple-slip mechanism of plastic Cosserat deformation -- Stress along the faults -- Wedge faulting: the L2 kinematics -- Parallel fault and parallel wedge interactions: the Gamma-scheme -- Bath's Law and the Cosserat extension of the Reid rebound model -- II. Introduction to the Omega-theory -- Omega-sequences -- Omega-cells: "seismic oscillators" -- Omori's Law -- Felzer-Brodsky's Law -- Strain waves and conservation laws -- Phase transitions -- Gutenberg-Richter's Law -- What causes earthquakes? -- III. Systems, plate tectonics, and order -- Omega-interactions -- Critical behavior: large earthquakes can be predicted -- Supercritical behavior: aftershock sequences -- The B-spectral theorem and the synchronized earth -- Quantum numbers of earthquakes: seismic back action and reverse causality -- Seismic induction and the theory of plate tectonics -- Earthquakes as computation: origin of order -- IV. Seismic chaos synchronizations -- T-synchronizations: predicting future seismic states of the earth -- M-synchronizations: the B-megasignal and large earthquakes -- S-synchronizations: the reciprocity theorem and the failure localization law -- Maximum effectiveness of predictions: -1 rule -- Open systems -- Further

observations on S-synchronizations -- V. Strain waves, plate tectonics, and the loop theorem -- Description of seismic states -- Epicenter production: Turbal's principle -- Structure of the aftershock sequences -- Synchronizations and fault reactivations -- Predictability of volcanic eruptions -- Strain waves at the tectonic plates boundaries -- Origin of plate tectonics: the loop theorem.

Sommario/riassunto

Of the Omega-theory -- Introduction -- I. Cosserat continuum theory of faulting -- Cosserat continuum -- The multiple-slip mechanism of plastic Cosserat deformation -- Stress along the faults -- Wedge faulting: the L2 kinematics -- Parallel fault and parallel wedge interactions: the Gamma-scheme -- Bath's Law and the Cosserat extension of the Reid rebound model -- II. Introduction to the Omega-theory -- Omega-sequences -- Omega-cells: "seismic oscillators" -- Omori's Law -- Felzer-Brodsky's Law -- Strain waves and conservation laws -- Phase transitions -- Gutenberg-Richter's Law -- What causes earthquakes? -- III. Systems, plate tectonics, and order -- Omega-interactions -- Critical behavior: large earthquakes can be predicted -- Supercritical behavior: aftershock sequences -- The B-spectral theorem and the synchronized earth -- Quantum numbers of earthquakes: seismic back action and reverse causality -- Seismic induction and the theory of plate tectonics -- Earthquakes as computation: origin of order -- IV. Seismic chaos synchronizations -- T-synchronizations: predicting future seismic states of the earth -- M-synchronizations: the B-megasignal and large earthquakes -- S-synchronizations: the reciprocity theorem and the failure localization law -- Maximum effectiveness of predictions: -1 rule -- Open systems -- Further observations on S-synchronizations -- V. Strain waves, plate tectonics, and the loop theorem -- Description of seismic states -- Epicenter production: Turbal's principle -- Structure of the aftershock sequences -- Synchronizations and fault reactivations -- Predictability of volcanic eruptions -- Strain waves at the tectonic plates boundaries -- Origin of plate tectonics: the loop theorem.