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Nota di contenuto	Thermodynamic theory of stability -- Mathematical methods in stability theory -- Some physical mechanisms of hydrodynamical instabilities -- Hydrodynamic fluctuations near the Rayleigh-Benard instability -- Some topics about the transition to turbulence -- Experimental aspects of the transition to turbulence in Rayleigh-Bénard convection -- Heat flux in convective instabilities -- Unstable flows of concentrated suspensions -- Dissipative structures and oscillations in reaction- diffusion models with or without time-delay -- Fluctuations in electromagnetic systems -- Instabilities in ecology -- Strange attractors.