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Nota di contenuto	Homogenization and visco-elasticity of turbulence -- Sedimentation of a random dilute suspension -- Remarks on oscillations and Stokes' equation -- Large and small structures in the computation of transition to fully developed turbulent flows -- Eddy viscosity subgrid scale models for homogeneous turbulence -- Blow-up in the Navier-Stokes and Euler equations -- Large eddy simulations of turbulence in physical space analysis of spectral energy transfer -- Vortex stability and inertial-range cascades -- A stochastic subgrid model for sheared turbulence -- Some challenges for modelling of turbulence and internal waves in stably stratified fluids -- Numerical simulation of homogeneous turbulence -- Time-dependent rayleigh-benard convection in low prandtl number fluids -- Spectral closures to derive a subgrid scale modeling for large eddy simulations -- Modelling of three-dimensional shock wave turbulent boundary layer interactions -- Numerical and theoretical study of different flow regimes occurring in horizontal fluid layers, differentially heated -- Rotating turbulence evolving freely from an initial quasi 2D state -- Quasi-geostrophic

turbulence and the mesoscale variability -- Small-scale atmospheric turbulence and its interaction with larger-scale flows -- Self-turbulizing flame fronts -- Simulation as an aid to phenomenological modeling -- Weak limits of semilinear hyperbolic systems with oscillating data -- Large scale oscillatory instability for systems with translational and galilean invariances -- The Kuramoto-Sivashinsky equation : A caricature of hydrodynamic turbulence ? -- Computation of a dimension for a model of fury developed turbulence -- Pattern formation by particles settling in viscous flows -- Liapounov exponents for the Kuramoto-Sivashinsky model -- Vortices and vortex-couples in two-dimensional turbulence long-lived couples are batchelor's couples -- Numerical simulation of decaying two-dimensional turbulence: Comparison between general periodic and Taylor-Green like flows.