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Nota di contenuto	- Stochastic Fluid Mechanics and Boussinesq Hypothesis -- Scaling Limit of 2D Euler to Navier–Stokes -- From Additive to Transport Noise in 3D Navier-Stokes Equations -- On the Role of L_p (L_q)-Techniques in Regularization by Noise of Reaction-Diffusion Equations -- Well-Posedness and Inviscid Limit Results for Stochastic Second-Grade Fluid Equations with Transport Noise in Bounded Domains -- The Stochastic Primitive Equations -- Stochastic Geometric Fluid Dynamics.
Sommario/riassunto	This book is based on an Oberwolfach Seminar, and it intends to give an introduction and an overview to several directions of the recent research on stochastic geophysical fluid dynamics and to discuss different geophysical stochastic partial differential equations.