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Nota di contenuto	Evaluation of filtration parameters of fluid-saturated reservoir with recurrent pumping -- Geomechanical approach to development of deposits with hard to recover reserves -- New generation of wind and wave climate handbooks for navigation and offshore activity -- Mathematical modeling of oceanic flows around a sphere -- Laboratory modeling of slow slip phenomena -- Seismoelectric effect at «Mikhnevo» -- Investigation of some features of internal breathers' transformation in the horizontally inhomogeneous Baltic sea environment -- Barotropic instability of the Oceanic jet stream.
Sommario/riassunto	This book is the result of collaboration within the framework of the Third International Scientific School for Young Scientists held at the Ishlinskii Institute for Problems in Mechanics of Russian Academy of Sciences, 2017, November. The papers included describe studies on the dynamics of natural system – geosphere, hydrosphere, atmosphere— and their interactions, the human contribution to naturally occurring processes, laboratory modeling of earth and environment processes, and testing of new developed physical and mathematical models. The

book particularly focuses on modeling in the field of oil and gas production as well as new alternative energy sources.

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