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Sommario/riassunto	This book entitled "Physical and Mathematical Modeling of Earth and Environment Processes" is the result of a collaborative work after the 4th international scientific youth forum held at the IPMech RAS on November 1-3, 2018. The book includes theoretical and experimental studies of processes in the atmosphere, oceans, the lithosphere and their interaction; environmental issues; problems of human impact on the environment; methods of geophysical research. A special focus is given to the extraction of hydrocarbon resources, including unconventional sources. This book also focuses on new approaches to the development of hydrocarbon fields, very important in today's geopolitical conditions. The book presents new results of the experimental and theoretical modeling of deformation, fracture and

filtration processes in the rocks in connection with issues of creating
scientific fundamentals for new hydrocarbon production technologies
