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Nota di contenuto	Bespalova et at On some recent discrete continuum approaches to the solution of shell problems -- Bespalova et at Modern abrasion processes of the Azov sea coast -- Bulysheva et at.Expansion of Oriental Shrimp Palaemon macrodactylus Rathbun1902 in the Azov Don Basin -- Berdnikov et al Marine indicators of climate change in the Azov Sea ecosystem.
Sommario/riassunto	This book presents the results of basic and applied studies on the solution of burning issues within the analysis of anomalous changes in marine environment under the influence of climatic changes and economic activities in the Azov-Black Sea basins. The collection of articles contains the articles by leading experts and young scientists that are devoted to the problems of monitoring and management of

coastal territories of the Sea of Azov, Kerch Strait, and near-strait zones of the Black Sea. This book contains articles on various issues of the Azov-Black Sea basin, including space monitoring of coastal characteristics, investigation of coastline dynamics, study of currents using acoustic Doppler profiling, carbon fluxes and methane sources on the shelf, climate change assessments in the seas, assessments of microplastic compounds in surface waters, interannual variability of sea ice, etc. This book presents a thorough investigation into the pressing issues stemming from abnormal changes in the marine environments of the Azov-Black Sea basins, influenced by climatic fluctuations and human endeavors. It compiles pivotal studies from renowned experts and emerging young scientists dedicated to the challenges of monitoring, managing, and preserving the coastal zones of the Sea of Azov, Kerch Strait, and the adjacent areas of the Black Sea. These contributions span a vast array of subjects, including but not limited to, satellite surveillance of coastal attributes, dynamics of shorelines, analysis of ocean currents through acoustic Doppler profiling, carbon dioxide flows, sources of methane on the continental shelf, evaluations of climate alterations in maritime regions, and the quantification of microplastic contaminants in marine surfaces. With a significant focus on the advancement and application of cutting-edge information technologies, artificial intelligence, and mathematical modeling, this book offers an in-depth exploration of hydrophysical phenomena, hydrodynamics, coastal processes, and issues related to water pollution.