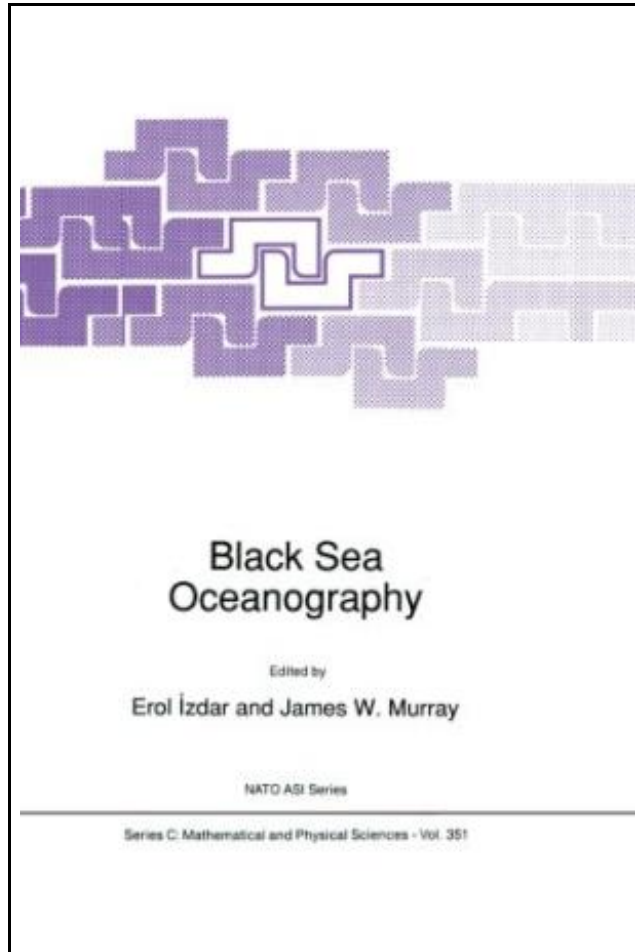


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Book Condition: New. Publisher/Verlag: Springer Netherlands | Proceedings of the NATO Advanced Research Workshop, Çesme, Izmir, Turkey, October 23-27, 1989 | Anoxic basins are of great interest to oceanographers of all disciplines. Their extreme conditions result from a combination of high oxygen utilization and restricted circulation. It is necessary to understand present-day anoxic environments if we are to understand the early evolution of the oceans (e.g. Sillen, 1965). Sarmiento et al. (1988a) explored the causes of anoxia in the global ocean, which is in effect a "closed" basin and in marginal seas such as the Eastern Mediterranean (Sarmiento et al. 1988b). Anoxic conditions have been proposed to exist in various ocean basins at different times in the geological past (e.g. the Cretaceous period; Weissert, 1981) and possibly as recent as the last glacial maximum (e.g., Sarmiento and Toggweiler, 1984). The modern Black Sea has been considered as the type anoxic basin. It is the world's 2 3 largest permanently anoxic basin (area = 423,000 km²; volume = 534,000 km³) and is thought to be a quasi-steady state system. It is extremely isolated from the rest of the world's oceans. Only the narrow and shallow Bosphorus Strait provides water exchange with the Mediterranean. Concentrations of hydrogen sulfide reach values of 350 Mm in the deep water and the oxygen-hydrogen sulfide interface exists between 80 and 200m water depth. The hydrographic regime is characterized by low salinity surface water of riverine origin overlying high salinity deep water of Mediterranean origin. A steep pycnocline is the primary physical barrier to mixing and is the origin of the stability of the anoxic interface. | Hydrographic Variability in the Black Sea.- Double Diffusive Intrusions, Mixing and Deep Sea Convective Processes in the Black Sea.- On the Dynamics of the Southern Black Sea.- Noble Gases and Tritium in the Black Sea.- Factors Affecting the Oxygen Isotopic Composition of the Black Sea.- Geochemical and Structural Aspects...



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