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Nota di contenuto	1. Introduction -- 2. Study on stratigraphic sedimentary characteristics and sedimentary water control mechanism in Yushen mining area -- 3. Characteristics of eco geological environment zoning in ecologically fragile mining areas -- 4. Classification and characteristic analysis of roof water disaster in Yushen mining area -- 5. Study on deformation and damage law of coal seam mining intensity on overlying water bearing (impermeable) rock layer -- 6. Study on the impact of coal mining on surface ecology and groundwater flow field -- 7. Mechanism and prevention and control technology of water inrush caused by mining deterioration in extremely thick sandstone weakly cemented aquifer -- 8. Mechanism and prevention technology of water inrush and sand break under the condition of strong mining with thick loose pores in thin bedrock -- 9. Study on the construction and development of "coal water" dual resource mine under the threat of roof water disaster -- 10. Conclusion.
Sommario/riassunto	This book targets to earth scientists and engineers, in particular students, researchers, managers, and practitioners, who are interested in mining engineering, environmental engineering, green coal mining, sustainable water resource management, and effective measures to

balance mine safety and ecological conservation. In the disciplines of mine hydrogeology and mining engineering, there have always been difficulties in the theoretical interpretation of the changes in the physical and hydraulic characteristics of water resisting strata during coal seam mining. In the past 10 years, the authors studied the relevant contents by using the methods of physical simulation, numerical simulation, field test and mining practice of similar materials, so as to understand the internal relationship between the stratigraphic sedimentary characteristics of the mining area and the occurrence mechanism of mine water disaster. On the premise of analyzing and studying the stratigraphic sedimentary environment in the mining area in detail, it is of great significance for the realization of "coal water" dual resource mining in the mining area to divide the types of roof water disaster in the mining area and study the formation mechanism of mine water disaster caused by different rock formation combinations and mining methods.