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Nota di contenuto	Water Hazards in Coal Mines and Their Classifications -- Mechanisms of Water Hazards in Coal Mines -- Techniques of Identifying Water Hazards in Coal Mines -- Evaluations and Prediction of Water Hazards in Coal Mines -- Monitoring and Early-Warning Techniques for Water Hazards in Coal Mines -- Proactive Mitigation of Water Inrush Risk on Regional Scales -- Emergency Responses to Water Hazards in Coal Mines -- Integration of Mine Water into Resource Planning -- Regulations on Water Hazard Control and Management -- Case Studies on Prevention and Mitigation of Water Hazards in Coal Mines.
Sommario/riassunto	This book summarizes the advances in mine hydrogeology in terms of the development of new technologies and sustainable mining to prevent water inrush disasters during coal-mine construction and production in China. It presents holistic topics that balance safe coal mining and the minimization of impacts on the environment and human beings. Systematically describing the methods and techniques used in China's coal mines to predict, prevent and mitigate water

inrushes, it includes nine case studies to illustrate the practical engineering solutions using state-of-art methods and technologies under various conditions. It also discusses how the approaches could help solve the world's water problems, not only in mining, but also in tunneling, disposing of nuclear waste, storing natural gas, and sequestering CO₂, as well as their impact on mining industries and related fields around the world. The book intended for students, researchers and practitioners working in the mining industries.
