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Nota di contenuto	Chapter 1 vulnerability of karst terranes to ground collapses and groundwater contamination -- chapter 2 monitoring and early warning of karst collapses -- chapter 3 geophysical techniques in sinkhole prediction and monitoring -- chapter 4 monitoring and early warning of karst collapses using brillouin optical time domain reflectometer -- chapter 5 hydrodynamic monitoring technique in collapse risk evaluation at datengxia water conservancy area, china -- chapter 6 detection and mitigation of groundwater contamination from highway stormwater runoff -- chapter 7 early detection of contaminant release from waste disposal facilities.
Sommario/riassunto	This book compiles a broad range of monitoring and early warning technologies focused on high-resolution in-situ water quality

parameters at springs and monitoring wells. The surface collapses often cause severe damage to infrastructures, properties, and loss of lives, whereas contaminated groundwater poses risks to human health and the environment. Collapses are critical in karst systems, sparsing a seventh of Earth's land surface. Karsts are also very relevant for drinking water, yet karst represents a fourth of global drinking water. Mitigating collapses and contaminated groundwater in karst aquifers can be complicated and costly. These parameters detect hydrodynamics, internal soil erosion, and ground deformation changes as karst collapse and pollution proxies. This book represents the most comprehensive overview of decades of research on karst collapse and groundwater contamination. This book is of interest to researchers and policymakers.
