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| Nota di contenuto | Tsunami hazard along the Eastern African coast from mega-earthquake sources in the Indian Ocean -- Preliminary tsunami hazard map of Africa -- The AD 365 Crete earthquake/tsunami impact in the Mediterranean region -- The AD 365 Alexandria (Egypt) tsunami revisited -- Seismotectonics of the Easternmost Cyprus Arc: Implications for Tsunami Hazard Assessment -- Seismic Hazard and Risk in Africa, a hidden hazard in an extreme vulnerable context -- Seismotectonics of the Khurutse Region, Botswana -- Kinematic and |

elastic modelling of fault-related-folds: A study from active structures of the Tell Atlas (Northern Algeria) -- Magmatic rifting and seismicity in Afar and northern Main Ethiopian Rift -- Architecture and evolution of the Kivu rift within the western branch of the East African rift system: Implications for seismic hazard assessment.

Sommario/riassunto

This edited book is based on the best papers accepted for presentation during the 2nd Springer Conference of the Arabian Journal of Geosciences (CAJG-2), Tunisia, in 2019. It is of interest to all researchers practicing geophysics/seismology, structural, and petroleum geology. With four sections spanning a large spectrum of geological and geophysical topics with particular reference to Middle East, Mediterranean region, and Africa, this book presents a series of research methods that are nowadays in use for measuring, quantifying, and analyzing several geological domains. It starts with a subsection dedicated to the latest research studies on seismic hazard and risk assessment in Africa presented during the 2019 IGCP-659 meeting organized alongside the CAJG-2. And, it includes new research studies on earthquake geodesy, seismotectonics, archeoseismology and active faulting, well logging methods, geodesy and exploration/theoretical geophysics, petroleum geochemistry, petroleum engineering, structural geology, basement architecture and potential data, tectonics and geodynamics, and thermicity, petroleum, and other georesources. The edited book gives insights into the fundamental questions that address the genesis and evolution of our planet, and this is based on data collection and experimental investigations under physical constitutive laws. These multidisciplinary approaches combined with the geodynamics of tectonic provinces and investigations of potential zones of natural resources (petroleum reservoirs) provide the basis for a more sustainability in the economic development. .
