

1. Record Nr.	UNINA9910299440303321
Autore	Shanov Stefan
Titolo	Dynamic Tectonics and Karst // by Stefan Shanov, Konstantin Kostov
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-662-43992-1
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (131 p.)
Collana	Cave and Karst Systems of the World, , 2364-4591
Disciplina	526.1 55 550 551
Soggetti	Structural geology Geophysics Natural disasters Hydrogeology Structural Geology Geophysics/Geodesy Natural Hazards
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Tectonic control on karst evolution -- Tectonic stress fields and karst -- Recent geodynamics and karst.
Sommario/riassunto	The karstic caves are favorable sites for tectonic events detecting, representing a conservative medium of three-dimensional framework where the tectonic deformations are well preserved. They also provide an environment conducive to dating and determining the geometrical parameters of past seismotectonic events. During the last three decades the study of dynamic tectonics and recent geodynamics in karst terrains has been subject of numerous publications, but it has not been systematically approached in a comprehensive monograph. This book collects the current state of knowledge on the relationship between karst and dynamic tectonics and presents a new methodology to its study. It puts forward several approaches for studying of recent

geodynamics in karst terrains, such as tectonic stress fields reconstructions using structural analysis of the fracturing, geophysical studies of the rock anisotropy and fault-plane solutions from earthquakes, analysis of the spatial orientation and absolute dating of deformed speleothems, instrumental and mechanical measurements, monitoring, and modeling – all supported with case studies from several karst areas worldwide, e.g. in Albania, Bulgaria, Cuba and France.
