**Springer**1st  
edition2015, XI, 123 p. 119 illus.,  
25 illus. in color.**Printed book**

Hardcover

**Printed book**

Hardcover

ISBN 978-3-662-43991-3

£ 109,99 | CHF 141,50 | 119,99 € |  
131,99 € (A) | 128,39 € (D)

Available

**Discount group**

Science (SC)

**Product category**

Monograph

**Series**

Cave and Karst Systems of the World

**Other renditions**

Softcover

ISBN 978-3-662-52375-9

Softcover

ISBN 978-3-662-43993-7

**Earth Sciences : Structural Geology**

Shanov, Stefan, Kostov, Konstantin

# Dynamic Tectonics and Karst

- Points out the significant role of tectonic stress fields as an influencing factor on karst processes
- Exposes a complex methodological approach for paleoseismological studies in karstic caves
- Demonstrates the importance of the movement of the tectonic block itself during the process of rupturing and displacement along active or capable faults

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.

**Order online at [springer.com/booksellers](http://springer.com/booksellers)****Springer Nature Customer Service Center GmbH**

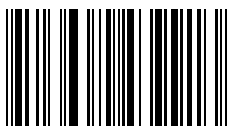
Customer Service

Tiergartenstrasse 15-17

69121 Heidelberg

Germany

T: +49 (0)6221 345-4301

[row-booksellers@springernature.com](mailto:row-booksellers@springernature.com)

ISBN 978-3-662-43991-3 / BIC: RBGD / SPRINGER NATURE: SCG17040

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.