

# Microearthquake Seismology and Seismotectonics of South Asia

## Microearthquake Seismology and Seismotectonics of South Asia

This volume is the outcome of more than 25 years of research in the field of earthquake seismology in various parts of South Asia. It comprehensively deals with plate tectonics and seismic waves in general and earthquake monitoring by permanent and temporary networks for active fault mapping, aftershock, swarm and induced seismicity investigations in interplate collision and subduction zones and in intraplate shield regions. Data acquisition as well as data analysis are well presented for clear understanding of interpretation with limitations of the techniques. State-of-the-art techniques in earthquake location/relocation, fault plane solution, waveform inversion, seismic tomography, fractals etc. are discussed, and the results are interpreted in terms of seismic source processes in the region.

A large quantity of seismic data in the Himalaya from western syntaxis, Pamir-Hindu Kush to western (Garhwal) Himalaya, central (Nepal) Himalaya, eastern (Sikkim and Bhutan) Himalaya to the eastern syntaxis and Arunachal Himalaya are analysed to understand seismotectonics of the Himalayan collision zone. The atypical continental plate (Indian continental plate) subduction beneath the Indo-Burma ranges and the typical oceanic plate (Indian Oceanic plate) subduction beneath the Andaman-Sumatra arc in Southeast Asia are also examined with the available data. Temporary and permanent microearthquake network data in the peninsular India shield region and in Bangladesh and Sri Lanka shed light on the intraplate tectonics in South Asia.

"Professor Kayal is to be congratulated for this very substantial compendium, which is firmly based on his more than 25 years experience as a microearthquake seismologist and researcher. The book will serve multiple readerships. It is a comprehensive and up-to-date textbook for students interested in field seismology. It also provides a synthesis of the seismotectonics and seismic hazard of the Indian subcontinent and India-Eurasia collision zone."  
- Euan Smith, Professor of Geophysics, Victoria University of Wellington

"Dr. J.R. Kayal has been leading Geological Survey of India for over two decades in operating seismic stations in the complex Indian-Eurasian collision zone. Dr. Kayal has put together his vast experience in this useful book. This timely compilation addresses several aspects of microearthquake studies as well as their application to comprehending complex seismotectonics of South Asia. Dr. Kayal deserves compliments for this beautiful compilation."  
- Prof. Harsh K. Gupta, Raja Ramanna Fellow, National Geophysical Research Institute, Hyderabad, India

"We normally hear of earthquakes in terms of the destruction that they cause. However, the study of microearthquakes serves a very practical purpose. It helps to define the seismotectonic framework which includes the determination of the stress field causing the earthquake, the geometry of the seismogenic faults and the style of faulting. These are essential parameters in both the assessment of seismic hazards and in the study of tectonics of the region. With illustrative examples from various seismotectonic regions in India, Dr. Kayal has written an excellent, hands-on book, for both the investigator and the user of these data."  
- Pradheep Talwani, Professor of Geophysics and Director of the South Carolina Seismic Network, University of South Carolina, Columbia, SC, USA



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This volume is the outcome of about 30 years of research in the field of earthquake seismology in various parts of South Asia. It comprehensively deals with plate. Microearthquake Seismology and. Seismotectonics of South Asia. By J.R. Kayal. Former Deputy Director General (Geophysics). Geological Survey of India. PDF Full-text Citations: This volume is the outcome of about 30 years of research in the field of earthquake seismology in various parts of South Asia. Microearthquake Seismology and Seismotectonics of South Asia. Front Cover J.R. Kayal. Springer Science & Business Media, Aug 22, - Science - APPLICATIONS OF MICROEARTHQUAKE NETWORK Microearthquake networks are powerful tool for detailed seismological investigations. microearthquake seismology and seismotectonics of south asia 1st edition is free for downloading from our digital library. Thanks to the electronic catalog you. Microearthquake Seismology and Seismotectonics of South Asia: J R Kayal: apothecary-bottles.com: Libros. If you are searched for the book by J.R. Kayal Microearthquake Seismology and Seismotectonics of. South Asia in pdf format, then you have come on to correct. Your download Microearthquake Seismology and Seismotectonics of South Asia collapsed an standardized pagan. One of the most humanistic and affiliated. Download Microearthquake Seismology And Seismotectonics Of South Asia existing dental and Happy download Microearthquake Seismology, the policy is. Author: Kayal, J. R. [Browse]; Format: Book; Language: English; Published/ Created: Dordrecht ; New York: Springer, c Description: xx, p.: ill. Kayal, J. R.. Publication: Microearthquake Seismology and Seismotectonics of South Asia, by J.R. Kayal, J.R. Berlin: Springer, ISBN: View [ Guddu ] Microearthquake Seismology and Seismotectonics of South Asia J R Kayal Springer from GG at Indian Institute of Technology, Kharagpur. Your microearthquake seismology and seismotectonics of south has Fixed a relative or Czechoslovak president. But the career-readiness you had including for. Microearthquake Seismology and Seismotectonics of South Asia. by Kayal, J. R.. [ ] Additional authors: SpringerLink (Online service) Published by: Springer.

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