

Indian Shield

Precambrian Evolution and Phanerozoic Reconstitution

A geological account of the history, growth, and evolution of the Indian Subcontinent, including Bangladesh, Bhutan, India, Nepal, and Pakistan

- Features a comprehensive geological account of the evolution of the Indian Subcontinent, from the growth of early crust to the present day
- Discusses different processes of post-Precambrian reconstitution of the Indian Shield that ultimately produced the present-day geomorphology and the tectonic character of the region
- Assesses the impact and effects of the ongoing post-Himalayan tectonism on the Indian Subcontinent and some neighboring countries such as Myanmar, China, Afghanistan, and Tajikistan

Indian Shield: Precambrian Evolution and Phanerozoic Reconstitution highlights the unique evolutionary trend that covers a period of over 3,500 million years: from the oldest crust to the most recent geological activity of the Indian Subcontinent. It discusses the regional geology of the terrain in terms of the history of evolution of the crust, describing how the Precambrian Shield evolved from a stable continental region to a tectonically unstable zone marked by frequent high-intensity earthquakes in a plate-interior setting. It is a comprehensive and well-illustrated account of the history of growth and evolution of the Indian Subcontinent, including Bangladesh, Bhutan, India, Nepal, and Pakistan.

Indian Shield: Precambrian Evolution and Phanerozoic Reconstitution is intended for graduate students, researchers, and educators in the geosciences, especially geophysics, geomorphology, and geology. This book also serves as an important resource for researchers of tectonics, petrology, and Precambrian geology and those involved in the exploration of mineral resources.

A. B. Roy, MSc (1961), PhD (1965) (Jadavpur University) is a retired professor of geology at ML Sukhadia University. He was a fellow of the Alexander von Humboldt Foundation for postdoctoral work at Ruhr University in 1975–76. He was elected fellow of the Indian Science Academy, Bangalore, in 1989, and the Indian National Science Academy, New Delhi, in 1990. He has published two books, a number of edited volumes, and over 120 research papers and scientific reviews.

Ritesh Purohit, MSc (1995), PhD (2002) (ML Sukhadia University) is an associate professor in geology at the Government College, Sirohi, Rajasthan, India. He has been engaged in teaching and research for the last 22 years and has more than 100 research publications to his credit. He is involved in many international research collaborations including with the Carnegie Institution of Washington. He is a recipient of postdoctoral research awards from UGC and DST of the Govt. of India and grants from NASA, International Atomic Energy Agency, Geological Society of America, International Geological Congress, and UNESCO-IGCP for research activities.



elsevier.com/books-and-journals

ISBN 978-0-12-809839-4



9 780128 098394



Roy
Purohit

Indian
Shield



A.B. Roy and Ritesh Purohit

Indian Shield

Precambrian Evolution and Phanerozoic Reconstitution

