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**Memoir 53**

# **Indian Continental Lithosphere: Emerging Research Trends**

**T.M. Mahadevan, B.R. Arora and K.R. Gupta**

*Editors*

Deep continental Studies carried out in the country during the last decade or so with the active support and vision of the Department of Science and Technology (DST) form the subject matter of this Memoir of the Geological Society of India.

A reconstruction of the three-dimensional picture of the Indian lithosphere is attempted from the researches along selected transect corridors of the subcontinent ensuring multi-institutional and multi-disciplinary approaches. Already available data on the gravity field of the Indian lithosphere and deep seismic soundings and more recently generated teleseismic data, palaeomagnetic and magnetostratigraphic studies, heat-flow studies, anisotropy of magnetic susceptibility, potential fields and magneto-tellurics coupled with geological, petrological and geochemical inputs have produced a veritable storehouse of new information to model the evolution of the Indian continental crust, crust-mantle interaction, seismic prognostics and metallogenesis in this segment of the earth's crust.

Competently edited and synthesised by the experienced geologist-geophysicist team of Shri T.M. Mahadevan, Prof. B.R. Arora and Dr. K.R. Gupta, this Memoir of the Society offers a superb and unified framework of the Indian continental lithosphere of great interest to both geologists and geophysicists alike in India and abroad.

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*(Copies can be supplied at concessional price to Fellows and bonafide students.*

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