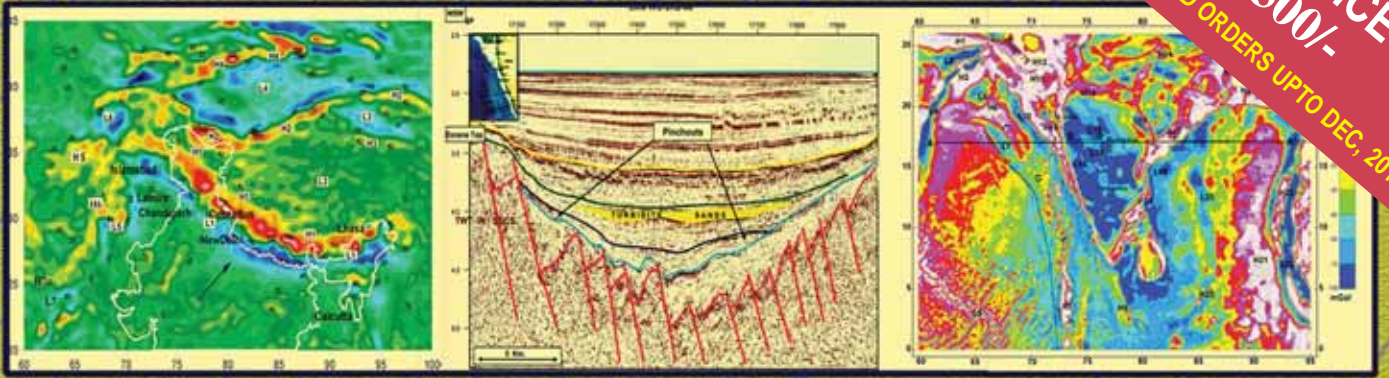


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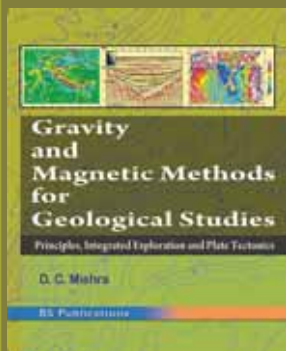
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by

D. C. Mishra



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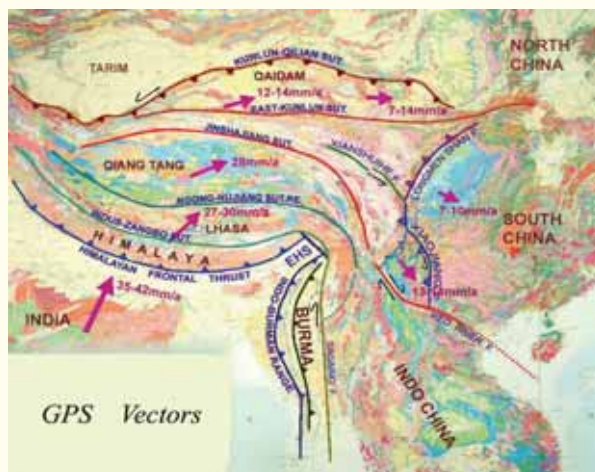
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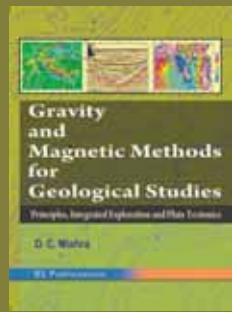
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by

D. C. Mishra

Dr. Dinesh Chandra Mishra completed his M.Sc in 1963 from Banaras Hindu University (BHU) and Ph.D (Geophysics) in 1966 from BHU and Tata Institute of Fundamental Research (Mumbai). After teaching tenure to M.Sc (Geophysics) in BHU, he joined the National Geophysical Research Institute (NGRI) as a Scientist in 1968 where he continued till superannuation in 2003. During his tenure at NGRI he held various scientific and administrative positions including Director's Grade Scientist. He is currently an Emeritus Scientist at NGRI.



An accomplished and renowned scientist, Dr. Mishra has visited various countries for advanced research work and has had the privilege to attend and present his work at key conferences. During his long career of almost 50 years, he collaborated with various national and international scientists. He was also an active member of the international committee on integrated exploration programme on 'Geotransects' and Fellow of several geophysical and geological societies.

He participated and guided the airborne magnetic and ground gravity surveys of different parts of the country and was involved in preparation of country wide gravity maps for geodynamics and resource exploration integrating them with other geophysical/geological information including satellite magnetic and gravity data. A Principal Investigator and Coordinator for several integrated exploration programs in the country, Dr. Mishra has co-authored a book and published more than 150 scientific papers and about 25 technical reports on 'Integrated Exploration for Geodynamics and Resources'. He is presently actively involved in some major scientific projects from Ministry of Earth Sciences and Department of Science and Technology, Government of India.



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Methods of magnetic data treatment, filtering, display and interpretation have also advanced especially with the advent of high performance computers and colour raster graphics. Figure 1. The gravity and magnetic survey methods exploit the fact that variations in the physical properties of rocks in-situ give rise to variations in some physical quantity which may be measured remotely (on or above the ground). In the case of gravity method, the physical rock property is density and so density variations at all depths within the Earth contribute to the broad spectrum of gravity anomalies. Geological provinces or basins and therefore allow inter basin studies such as delineating of extensive shallow and deep features as faults, basin boundaries, etc. to be extracted.