

About the Book

This book on geomagnetic perspectives of solid Earth and upper atmosphere presents various aspects of the Earth's magnetic field. Beginning and with a treatise on the historical development of geomagnetism, topics covered in this book include the most recent advances in geophysical research on acquisition, reduction and analyses of data from geomagnetic observatory network, geophysical surveying and laboratory experiments. The state-of-art geophysical techniques of gravity and magnetic field anomalies from ground, aeromagnetic and satellite data: EM induction of geomagnetic depth sounding magnetotellurics and ocean-bottom magnetometry: global positioning system: tectnomagnetism and paleoseimology in earthquake precursory used to probe the Earth's interior are lucidly explained. Descriptions on the basis relationships between the Sun-Earth and space-weather using satellites ,rockets and modern experimental results, besides application of palaeo, rock and environmental magnetic laboratory measurements for mapping plate movements towards understanding the Earth's history and Earth processes, make this book a truly enlightening experience to the readers.

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