



Introduction to Geomagnetic Fields

Wallace H. Campbell

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Geomagnetic fields arise from a variety of electric current sources. The main, dipolar field results from currents in the Earth's outer core. Dynamo currents, driven by motion of the Earth's ionosphere, generate daily surface field variations, and the Sun's activity modifies the Earth's magnetosphere, producing storm currents on a global scale. Using a minimum of mathematics, and without sacrificing the depth of coverage, the author presents the geomagnetic source fields. Details of measurement methods and a thorough review of the societal impact and use of geomagnetic fields complete the main text. The book concludes with appendices that summarise the necessary background mathematics, provide a comprehensive list of geomagnetic information, and detail geomagnetic utility computer programs. With its refreshing presentation, *Introduction to Geomagnetic Fields* will appeal to graduate students and researchers seeking an understanding of these natural phenomena.

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