Título: Geophyusics For The Mineral Exploration Geoscientist

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Precio: $1785.00

Editorial:

Año: 2014

Tema:

Edición: 1ª

Sinopsis

ISBN: 9780521809511

Providing a balance between principles and practice, this state-of-the-art overview of geophysical methods takes readers from the basic physical phenomena, through the acquisition and processing of data, to the creation of geological models of the subsurface and data interpretation to find hidden mineral deposits. Detailed descriptions of all the commonly used geophysical methods are given, including gravity, magnetic, radiometric, electrical, electromagnetic and seismic methods. Each technique is described in a consistent way and without complex mathematics. Emphasising extraction of maximum geological information from geophysical data, the book also explains petrophysics, data modelling and common interpretation pitfalls. Packed with full-colour figures, also available online, the text is supported by selected examples from around the world, including all the major deposit types. Designed for advanced undergraduate and graduate courses in minerals geoscience, this is also a valuable reference for professionals in the mining industry wishing to make greater use of geophysical methods. In 2015, Dentith and Mudge won the ASEG Lindsay Ingall Memorial Award for their combined effort in promoting geophysics to the wider community with the publication of this title.

Explains the cutting-edge current practice in exploration and mining geophysics for the discovery of 'blind' mineral deposits
Includes presentation and analysis of new petrophysical data, giving geologists and geophysicists key information on the physical properties of rocks
Provides examples from all the main types of mineral deposit around the world, giving students exposure to real geophysical data
Richly illustrated with over 300 full-colour figures, with access to electronic versions for instructors