



# Applied Geophysics in Periglacial Environments

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Many research problems in cryospheric science, such as global warming-induced permafrost degradation, require information about the subsurface, which can be imaged using geophysical methods. This book is a practical guide to the application of geophysical techniques in mountainous and polar terrain, where the harsh environment and nature of the subsurface pose particular challenges. It starts with an introduction to the main geophysical methods and then demonstrates their application in periglacial environments through various case studies - written by a team of international experts. The final part of the book presents a series of reference tables with typical values of geophysical parameters for periglacial environments. This handbook is a valuable resource for glaciologists, geomorphologists and geologists requiring an introduction to geophysical techniques, as well as for geophysicists lacking experience of planning and conducting field surveys in cold regions.

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#### Review

"While the book has been prepared as a handbook for geomorphologists, geologists, and glaciologists requiring an introduction to geophysical techniques, it is also a precious reference for geophysicists and other geoscientists planning or conducting field surveys in mountainous and polar regions in cold climates. I also recommend it as a guide book to geophysicists who are pursuing seismic and electromagnetic surveys in mountainous and polar terrains." The Leading Edge

#### About the Author

Christian Hauck received a Ph.D. from the Eidgenossische Technische Hochschule (ETH) Zurich. He is now a scientist at the Institute for Meteorology and Climate Research in the University of Karlsruhe, and has 9 years of experience in conducting field work in alpine, arctic and antarctic environments using electrical, electromagnetic and seismic surveying methods. Dr Hauck's main research interests include the application of geophysical methods in mountainous and polar terrain, and new measuring and inversion methods in hydrogeophysics. Christof Kneisel received a Ph.D. from the University of Trier in 1999. He is now a Lecturer at the Department of Physical Geography at the University of Wurzburg, and has 12 years of experience in conducting field work in alpine and subarctic periglacial environments using 1-D and 2-D electrical methods and refraction seismics. Dr Kneisel's main research interests include the application of geophysical mapping and monitoring in alpine and subarctic periglacial terrain on various glacial and periglacial landforms, and the application of geoelectrical methods in soil and environmental science.

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