

Preface to the English Edition

Standardization of geophysical survey procedures has been an on-going project of several organizations in the world including the International Society for Rock Mechanics (ISRM) and the European Committee for Standardization (CEN). These organisations aimed to establish an interdisciplinary standard and a local standard to their regions. In Japan, the Japanese Geotechnical Society adopted geophysical survey methods as a means to investigate bedrocks, and they comprehensively summarised appropriate geophysical techniques for each geotechnical environment explaining the methods, usage and interpretation of results.

Since the introduction of the ISO 9000 series standard in 1990s, the concept of “quality assurance by managing the process” has gained universal acceptance. Geophysical surveys are no exception, although the dominance of the knowledge and experience of individual geophysicists and engineers is traditionally considered to be unavoidable in this discipline. Hence, necessity for standardization of geophysical survey procedures has been advocated in many countries as a guide to managing the process.

In response to this demand, the Society of Exploration Geophysicists of Japan (SEGJ) published *Application of Geophysical Methods to Engineering* in July 2000, which describes the general procedures of application of geophysical techniques. The present book is an English translation of its main part.

To organise this English edition, the SEGJ established the Advisory Committee on the Standardization late 2000. This Committee initially took central role in translating the text into English with assistance of the Sub-Working Group of the Technical Commission of the Japanese Committee for International Society for Rock Mechanics. I express my thanks to the members concerned.

The English text was, then, examined and edited by volunteers of the Australian Society of Exploration Geophysicists (ASEG) and its associates. They made many useful comments on the technical contents as well as on the translated English text, which are reflected in this edition. I trust the cooperative relationship between SEGJ and ASEG has been enhanced through this collaboration towards promotion and advancement of geophysical survey technology.

I hope this book is used by engineers beyond the borders of Japan and contributes to their performance.

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