

Deep-level Gold and Platinum Mining - The Application of Geophysics in South Africa

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Abstract:

This book provides the basic know-how and guidance to effectively exploit non-destructive geophysical technologies and apply them in the underground mining environment to optimise mineral extraction and to contribute to safer mining. The effective application of these technologies can enable a better understanding of the unseen orebody and the surrounding rock mass ahead of the mining face; the potential benefits of applying in-mine geophysics is demonstrated through a selection of case studies conducted in deep-level hard rock mines in South Africa. This book also offers valuable insight and training material for students in a variety of relevant mining disciplines like geology, rock engineering, mining engineering, mine planning and mineral resource management.