

1. Record Nr.	UNINA9910586635703321
Titolo	Deep-Level Gold and Platinum Mining : The Application of Geophysics in South Africa / / by Michael van Schoor, Zamaswazi Nkosi, Fleckson Magweregwede, Thabang Kgarume
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-031-09491-3
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (80 pages)
Disciplina	338.274109682 622.15
Soggetti	Geotechnical engineering Geophysics Geology Computer vision Image processing Mineralogy Geotechnical Engineering and Applied Earth Sciences Computer Vision Image Processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Introduction to South African deep-level gold and platinum mining -- 2. Scenarios -- 3. Physical properties -- 4. Overview of key geophysical technologies -- 5. Top issues and applicability guidelines -- 6. Case histories.
Sommario/riassunto	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.

---