

Guidelines for Evaluating Water in Pit Slope Stability

From CRC Press



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Guidelines for Evaluating Water in Pit Slope Stability is a comprehensive account of the hydrogeological procedures that should be followed when performing open pit slope stability design studies. Created as an outcome of the Large Open Pit (LOP) project, an international research and technology transfer project on the stability of rock slopes in open pit mines, this book expands on the hydrogeological model chapter in the LOP project's previous book *Guidelines for Open Pit Slope Design* (Read & Stacey, 2009; CSIRO Publishing/CRC Press).

The book comprises six sections which outline the latest technology and best practice procedures for hydrogeological investigations. The sections cover: the framework used to assess the effect of water in slope stability; how water pressures are measured and tested in the field; how a conceptual hydrogeological model is prepared; how water pressures are modelled numerically; how slope depressurisation systems are implemented; and how the performance of a slope depressurisation program is monitored and reconciled with the design.

Guidelines for Evaluating Water in Pit Slope Stability offers slope design practitioners with a road map that that will help them decide how to investigate and treat water pressures in pit slopes. It provides guidance and essential information for mining and civil engineers, geotechnical engineers, engineering geologists and hydrogeologists involved in the investigation, design and construction of stable rock slopes.

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Editorial Review

About the Author

Geoff Beale is a worldwide expert in mine hydrology and mine water management with 37 years' hands-on experience in the extractive and mining industries. He travels globally and works as a senior technical expert for many of the large mining houses. Geoff is most noted for his global knowledge of open pit and underground mine dewatering projects, and has been involved with many of the world's largest dewatering operations. In addition, he has broad experience in the operation and environmental aspects of leach pads, waste rock facilities and tailing systems, and also has extensive mine closure experience. Over the past 15 years, Geoff has studied the behaviour of pore pressure in pit slopes and how this relates to the overall slope design, and has researched the interaction between groundwater flow and rock mass deformation in low permeability environments using a number of datasets from operating mines.

Geoff Beale graduated from Lancaster University (UK) in 1975 and has since worked on over 250 mining projects in over 50 countries, in all mining commodities, and in all of the world's climatic regions. He was one of the founder members of the Water Management Consultants Group in 1989, and was principal with the company through to the time of its acquisition by Schlumberger in 2007. He has worked for Schlumberger since 2007.

John Read is an engineering geologist with over 45 years' experience and particular expertise in the stability of rock slopes in large open pit mines. He has BSc and MSc (Hons) degrees in geology from the University of New Zealand and Canterbury University, NZ, a PhD in geotechnical engineering from Purdue University, USA, and is a chartered professional engineer in Australia. Dr Read began his own geotechnical engineering practice in 1990, since when he has specialised in slope stability and open pit mine slope design and investigation tasks in Australia, Fiji, Papua New Guinea, Brazil, Argentina, Chile, Canada, South Africa and Zambia.

From 1994 to 2004 Dr Read was Deputy Chief of CSIRO Exploration & Mining and Executive Manager of the Queensland Centre for Advanced Technologies, Brisbane. He stepped back from these positions in April 2004 to initiate and lead the Large Open Pit (LOP) project, an international research and technology transfer project on the stability of rock slopes in open pit mines.

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