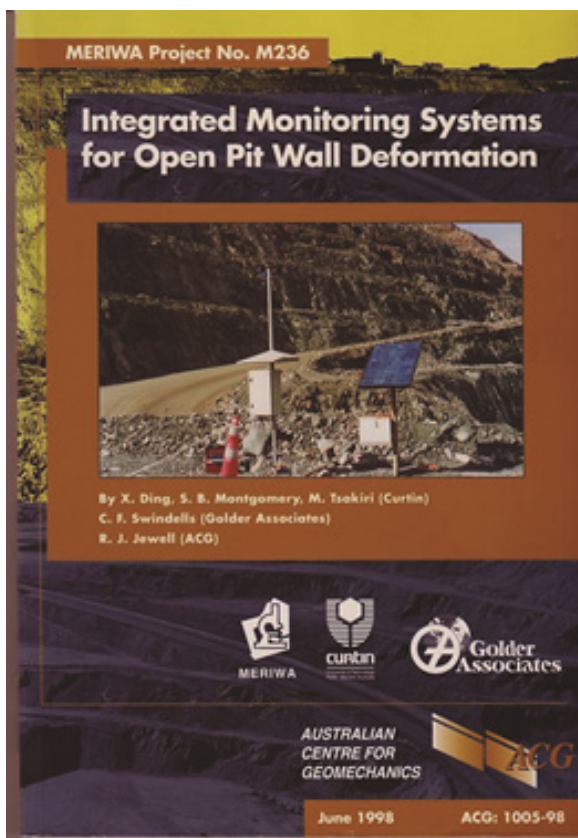


Integrated Monitoring Systems for Open Pit Wall Deformation

ACG Research Report No.: ACG 1005-98
MERIWA Project No. M236



This three year project was designed to:

- Improve and optimise techniques for slope monitoring data collection.
- Develop rigorous mathematical models and software packages for monitoring data processing, analysis and visualisation.
- Develop integrated systems for on-line data logging, analysis and presentation, and for interfacing with other packages and alarm systems.
- Better understand the deformation mechanism of pit walls.

The project has, to a large extent, achieved all four objectives listed above. Research that was carried out in the project is reported under the following headings:

- Review of current slope monitoring techniques and practices.
- Development of an automatic slope monitoring system.
- Study of robotic survey systems for pit slope monitoring.
- Development of techniques and software for survey data processing and analysis.
- Analysis and modelling of deformation monitoring data.
- Study of GPS technology for pit slope monitoring.

Researchers

The research project was initiated by Dr Chris Swindells – DME of WA (now Golder Associates); A/Prof Richard Jewell – ACG; Mr Bruce Montgomery – Curtin University; and Dr Xiaoli Ding – Curtin University (now Hong Kong Polytechnic), and was conducted primarily by researchers from Curtin University of Technology and personnel from sponsoring companies.

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