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Development of a dust exposure level index (Deli) for South African underground coal mine workers

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2006-11-17T11:18:12Z
http://hdl.handle.net/10539/1859

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AUTHORS NOTES ON CD INFORMATION

The CD contains various files namely:

The final PhD thesis document (*.pdf document)
The final PhD thesis-Appendix document (*.pdf document)
A spreadsheet program containing Dust Exposure Level Index (DELI) model
Two coal mine examples on application of DELI model

Some notes:

The ***DELI model in Excel spreadsheet*** included could be used to give fair reflection of dust conditions in coal mine sections. The workbook has three sheets, viz., AQI sheet, DELI-PEAK sheet and DELI SHEET.

The DELI model is self-explanatory with comments included. The inputs to the DELI model can be added to the AQI sheet. The real-time data can be added to the DELI-PEAK sheet. The DELI model output is automatically calculated and reflected in DELI sheet. The model contains various DELI parameters used in the model and many of the cells are hidden as not to complicate the viewing structure of the spreadsheet as well as preventing the changes to the formulas.

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