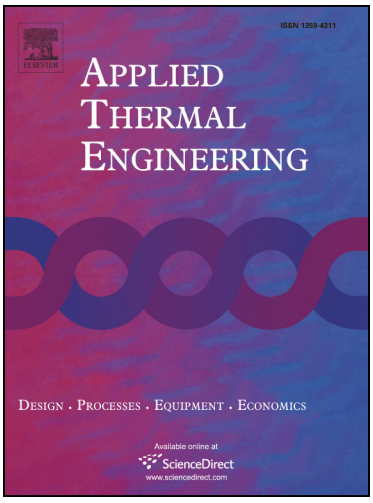

Integrated energy simulation of a deep level mine cooling system through a combination of forward and first-principle models applied to system-side parameters

Waldo Bornman, Jaco Dirker, Deon C. Arndt, Josua P. Meyer

PII: S1359-4311(16)34001-7
DOI: http://dx.doi.org/10.1016/j.applthermaleng.2017.05.163
Reference: ATE 10478

To appear in: *Applied Thermal Engineering*

Received Date: 12 December 2016
Revised Date: 24 April 2017
Accepted Date: 28 May 2017

Please cite this article as: W. Bornman, J. Dirker, D.C. Arndt, J.P. Meyer, Integrated energy simulation of a deep level mine cooling system through a combination of forward and first-principle models applied to system-side parameters, *Applied Thermal Engineering* (2017), doi: http://dx.doi.org/10.1016/j.applthermaleng.2017.05.163

Integrated energy simulation of a deep level mine cooling system through a combination of forward and first-principle models applied to system-side parameters

Waldo Bornman[1]; Jaco Dirker[1*]; Deon C. Arndt[2]; Josua P. Meyer[1]**

[1] *Department of Mechanical and Aeronautical Engineering, University of Pretoria, Pretoria, Private Bag X20, Hatfield 0028, South Africa.*

[2] *Enoveer Engineering Innovation, Pretoria, PO Box 60111, Pierre van Ryneveld 0045, South Africa*

** Corresponding Author:*

Email Address: waldo.bornman@gmail.com

Phone +27 (0)82 318 1847

***Alternative Corresponding Author:*

Email Address: jaco.dirker@up.ac.za

Phone: +27 (0)12 420 2465