

# Powder Metallurgy & Mining

Review Article

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Suglo RS, Frimpong S, Brown OF (2013) Novel At-Face-Slurry Performance Modeling with Elliptical and Spherical Geometries. J Powder Metall Min S1: 006. doi:[10.4172/2168-9806.S1-006](https://doi.org/10.4172/2168-9806.S1-006)

reserves along the major axis on these benches can then be mined later

terminated when the boundary conditions along the minor axis or shorter dimensions of the property boundaries are attained. The results show that the PDE calculations tend to overestimate

Tables 3 and 4 summarize the required periods for mining all the ore on benches 1 to 3 using geometric calculations and PDEs for circular and elliptical pit configurations respectively. The results show that the values from MATLAB geometric calculations are almost the same as those obtained from PDEs for the different pit configurations.

Thus, PDEs may be successfully used in volume calculations to arrive at the same values as obtained from geometric process. However, calculations using PDEs for pit expansion in all directions are usually

