

GTMod 1.0: a geological and geotectonic tool for ore body modeling – case study of the Trepça mine

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Abstract

GTMod 1.0 is a very powerful AutoCAD-integrated tool developed in VBA to efficiently model the morphology and tectonic of ore bodies. Compatible with AutoCAD from 2006 onward, the tool requires one-time installation and can be used on demand. This tool named GTMod 1.0 has its main focus on **Geological and Geotectonical Modeling** of ore bodies especially in Trepça mine. This study applies GTMod 1.0 to model ore bodies in the Trepça Mine, generating their morphology and surface automatically. Integration with the Z-axis enables 3D modelling of the entire ore bodies. The tool also calculates ore body surfaces of any irregular forms of Trepça mine ore bodies which saves significant time, provides accurate results, and ensures proper formatting of values.