

目次

新型锚喷支护技术及其在桃园矿区的应用

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收稿日期 2005-12-15 修回日期 2006-5-31 网络版发布日期 2006-12-15 接受日期

摘要 钢筋网壳结构是软岩巷道支护工程中一种新型的支护形式。介绍钢筋网壳锚喷支护的技术特色、结构特点、支护原理, 并对其进行理论分析, 推导出钢筋网壳锚喷结构计算模型及其内力计算表达式。结合在桃园矿的应用, 阐述其施工技术要求及施工工艺。实践证明, 空间网壳锚喷支护结构具有很高的推广应用价值和广阔的发展前景。

关键词 [采矿工程](#) [钢筋网壳支架](#) [软岩巷道](#) [锚喷支护](#) [工程应用](#)

分类号

NEW TECHNOLOGY OF BOLTED SHOTCRETE SUPPORT AND ITS APPLICATION TO TAOYUAN COAL MINE

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Abstract

The reinforced shell structure is a new kind of forms in the supporting engineering for soft rock tunnel. The technique feature, structure characteristic and supporting theory are introduced; and the structure is analyzed theoretically. The calculation model and expressions of inner forces are deduced for this kind of structure. With its application to the Taoyuan Coal Mine, the construction technique requests and crafts are also set forth. Practice shows that the spatial bolted shotcrete supporting structure is of very high value and vast development foreground.

Key words [mining engineering](#) [reinforced shell support](#) [soft rock tunnel](#) [bolted shotcrete support](#) [engineering application](#)

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