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#### 论文

矿井通风系统环境温度实时计算与应用

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摘要:

结合矿井通风网络解算,对矿内通风巷道风流温度进行了实时计算与分析.首先对影响风流温度的不同热源进行了分类,选定了基本热源计算公式;然后根据对矿井不同特征巷道的划分,对不同性质的巷道进行了分析,最后结合大强煤矿实际状况,计算并分析了矿井风流温度参数.成果可为高温矿井的系统开拓、改扩建和通风系统的设计提供参考。

关键词: 矿内环境: 环境风流温度: 热源: 通风网络: 风流温度计算

Real-time calculation and application of mine ventilation system environmental temperature

### Abstract:

Based on the mine ventilation network calculation in this paper, all the mine ventilation system ambient temperature was real-time calculated and analyzed. First, different heat sources that effect the airflow temperature were classified and the basic calculation formula of heat sources was determined; second, according to compartmentalization of various types of roadway, different quality of the roadways was analyzed; finally, combined with the actual conditions of coal mines, ventilation system airflow and temperature parameters were calculated. These achievements can provid theoretical basis and reference value not only for the system's exploitation, reconstruction and development, but also for the design of ventilation system.

Keywords: mine environment; environmental airflow temperature; heat source; ventilation network; airflow temperature calculation

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