

# 上覆岩层瓦斯卸压范围及流动规律的应用研究

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Title: Researches on gas discharging pressure range and flow rules in overlying rock of coal seams

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关键词: [上覆岩层](#); [矿井瓦斯](#); [卸压范围](#); [BP神经网络](#)

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摘要: 为合理、高效地治理朱家店煤矿巷道掘进和煤层开采过程中瓦斯浓度多次超限的技术阻力,本文针对该煤矿不同煤层上覆岩层瓦斯卸压范围及流动规律进行了较为深入的研究,建立了其BP神经网络破坏高度的数学预测模型。通过合理地计算,本文确定了该矿开采煤层上覆岩层的走向及倾向卸压长度、卸压上限和卸压范围,最后提出了有效控制上覆岩层瓦斯大量流向工作面及采空区的技术策略,从而达到了遏制矿井瓦斯事故发生的目的。

Abstract: In order to solve the technical problem that the gas density frequently goes beyond the limit in the process of driving and exploiting in coal seams in Zhujiadian Coal Mine,was established a deep research was conducted and a mathmetical prediction model of its BP damage height of neural network based on the gas discharging pressure range and flow rules in overlying rock of defferent coal seams.By rational calculation,the line of strike and the prefered length,upper limit and extent of discharging pressure of overlying rock were determined,and a technical scheme to effectively ensure the overlying rock gas floods into working face and goaf were proposed,thus to achieve the goal to curb mine gas accidents.

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