

# 《2007矿山灾害预防与控制国际学术》

## 图书基本信息

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# 《2007矿山灾害预防与控制国际学术》

## 内容概要

Mine Hazards Prevenion and Control Technology , ISBN : 9787030190062 , 作者 : Chunqiu Wang , 等 编

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## 章节摘录

**Introduction** In a underground fire, the harmful fire gas generated by the fire extends to an underground space with ventilation. Moreover, different behavior of ventilation from that of normal condition is often shown because of the buoyancy and the throttling effects due to the density change of the air. It is not rare to reverse the direction of ventilation either. Therefore, the fire gas extends even to the part not anticipated, and a fire becomes a serious accident easily. It is necessary to make an effective extinction method and evacuation measures from the mine fire that enough knowledge about the behavior of the fire gas. However, it is difficult to measure the quantity of air flow etc. in many place in the middle of the state of emergency like a fire. Therefore, the actual measurement data of the ventilation in a mine fire is hardly obtained. Though many mine fires are recorded in Japan, almost the records can not be used as references for the quantitative analysis and the study. The reliable ventilation direction change in a whole mine during fire was recorded about Otuji colliery though the airflow rate is not recorded. The mine fire and the simulation are described here based on the record of a fire of the colliery first. Next, the result of study on the behavior of the mine fire gas in the inclined shaft and vertical shaft are described.

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