本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

论文

煤炭资源科学采矿评价方法探讨

李东印,李化敏,周英,王文,许灿荣

河南理工大学 能源科学与工程学院,河南 焦作 454000

摘要:

为了实现科学采矿由定性描述到定量表达的转化,构建了基于主观动态权重的数学模型。该模型由7个一级指标、37个二级指标和64个三级指标构成评价体系,采用专家定参法、标准取值法、开关函数法、分段函数法、定性取值法等手段,可实现评价指标的无量纲化处理;同时,采用改进的主观专家赋权法实现指标权重的动态化。该评价模型可适用于不同条件的矿井,并用科学采矿指数(ScMC)作为表达科学采矿水平的惟一综合指标。

关键词: 科学采矿:科学采矿指数:动态权重:定量评价

Discussion on evaluation method of the coal scientized mining

Abstract:

Based on the connotation of scientized mining, guarantee measures and objective analysis of the mining conditions, confirmed the scientific evaluation system which composed of 7 first—class indexes, 37 second—class indexes and 64 third—class indexes.Combined with industry—characteristics, respectively, in the process of weight determination and quantification, gave full play to the role of evaluation expert, and by optimizing subjective weighting of experts participation together, realized the target weights of evaluation system in dynamic.By the use of method with experts—input parameter, the standard value method, switching function method, sub—function method, qualitative value method, and other means are employed to achieve the evaluation index of dimensionless processing.Using scientized mining coefficient(ScMC) to quantify the expression of scientized mining level of the evaluated mine can be realized.

Keywords: scientized mining; scientized mining coefficient; dynamic weight; quantitative evaluation

收稿日期 2011-12-02 修回日期 2012-03-08 网络版发布日期 2012-04-20

DOI:

基金项目:

国家自然科学基金资助项目(51074066)

通讯作者: 李东印

作者简介: 李东印(1970—), 男,河南封丘人,副教授,博士研究生

作者Email: lidongyin@126.com

参考文献:

本刊中的类似文章

Copyright by 煤炭学报

扩展功能

本文信息

- ▶ Supporting info
- ▶ PDF(1184KB)
- ▶ [HTML全文]
- ▶参考文献PDF
- ▶ 参考文献

服务与反馈

- ▶ 把本文推荐给朋友
- ▶加入我的书架
- ▶加入引用管理器
- ▶引用本文
- ▶ Email Alert
- ▶ 文章反馈
- ▶浏览反馈信息

本文关键词相关文章

科学采矿;科学采矿指数;动

* 态权重; 定量评价

本文作者相关文章

- ▶ 李东印
- 李化敏
- ▶王文
- ▶ 许灿荣

PubMed

- Article by Li, D.Y
- Article by Li, H.M
- Article by Yu,w
- Article by Xu,C.R