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区域地壳稳定性评价专家系统研究 [点此下载全文](#)

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摘要:

重大工程选址区域地壳稳定性评价专家系统的开发涉及到众多学科。本文运用结构矩阵法建立了综合且优化的专家知识结构模型, 探讨了专家知识定量表述的心理物理学实验方法, 为专家知识的获取和定量表示提供了基础。运用专家系统工具M. 1 开发了重大工程选址区域地壳稳定性评价专家系统(CRUSTAB), 含610条规则, 200个事实, 属于中型专家系统。最后, 介绍了该系统在广东核电站选址区域地壳稳定性评价结果。

关键词: [专家系统](#) [区域地壳](#) [稳定性](#) [专家系统](#)

AN EXPERT SYSTEM OF REGIONAL CRUSTAL STABILITY EVALUATION OF THE SITING OF KEY ENGINEERING WORKS [Download Fulltext](#)

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Abstract:

An expert system of regional crustal stability evaluation of the siting of key engineering works has been developed. It contains 610 rules and 200 statements. The system consists of eleven sub-knowledge bases that are organized into modes, so synthetic evaluation and individual assessment can be undertaken in order to suit various constructions and different evaluation levels. The structure matrix method is applied to combining various kinds of knowledge from such disciplines as geology, seismology and geophysics and to establishing the knowledge structure model from experts, which provides a basic frame for the CRUSTAB system development. Knowledge representation of expert problem-solving is quantitatively illustrated by conventional experiment psychophysics. An assessment case of the application of the CRUSTAB expert system in the Guangdong Nuclear Power Plant is introduced.

Keywords: [expert system](#) [regional crustal stability](#) [knowledge representation](#)

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