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黄河悬河研究及其专家系统研制 [点此下载全文](#)

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摘要:

本文在分析了大量研究资料的基础上, 提出了一套以地壳, 堤坝和地基三系统控制论为理论基础, 以工程治理与环境治理, 环境治理与经济发展, 地质工程治理与水利工程治理相结合为治理对策的研究思路, 在此基础上, 利用人工智能技术, 研制了黄河下游悬河稳定性评价专家系统(SSRPP系统), 并运用该系统对黄河下游悬河郑州铁桥—彭楼集段等进行了稳定性分析, 评价结果与实际情况吻合。

关键词: [黄河](#) [悬河](#) [专家系统](#) [地壳](#) [堤坝](#) [地基](#)

Study on the Suspended River of the Yellow River and Its Expert System [Download Fulltext](#)

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Abstract:

From an analysis of large amounts of data, the authors propose an idea that the control of the suspended river of the Yellow River should be theoretically based on the cybernetics of the tri-systems of earth's crust-foundation-embankment and methodologically based on the integration of engineering control and environmental control, environmental control and economic development, geological-engineering control and hydraulic engineering. On that basis, an expert system of the stability evaluation of the suspended river in the lower reaches of the Yellow River has been developed using the artificial intelligence technique, and a stability analysis of the Tieqiao-Penglouji reach of the suspended river in the lower reaches of the Yellow-River near Zhengzhou has been performed using this expert system. The result of the evaluation coincides with the actual situation.

Keywords: [Yellow River](#) [suspended river](#) [expert system](#) [earth's crust](#) [foundation](#) [em-bankment](#)

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