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RESEARCH ON DESIGNING FOR FLOOD RISK BASED ON ADVANCED CHECKING-POINT (JC) METHOD

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Abstract

Designing for flood risk is an important reference for hydroelectric project planning and design. In this paper, advanced checking-point method (JC method), which is usually used to calculate structure reliability is introduced and used to analyze the downstream design for flood risk, considering upper reservoirs' influence; besides, the design for flood hydrograph is deduced from the typical flood hydrograph. So, JC method not only can consider the influence of upper reservoirs, but also can calculate the design for flood risk on that impact. This is a new attempt to study flood and water project design.

Key words: design flood risk, design flood region composition, JC method

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