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澜沧江干流水电站建设前后出境点径流变化分析

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Analysis the effect of the hydropower station building of Lancangjiang main stream on the change of runoff at leave country section

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摘要 澜沧江干流水电站已在规划建设中,本文应用流域整体水资源模拟模型及径流扰动分析方法,对干流水电站建设前后的径流变化进行研究分析.结果表明:①水电站建设后出境点的径流过程与来水情况基本一致,在远景枯水年略有波动;②在同一情景年不同来水情况其扰动具有一致性,远景年扰动最强烈;③随着水电站建设,年内对出境点径流扰动逐渐增强,但年际径流总量保持不变;④模型及扰动分析计算方法,可有效地分析计算水电站建设过程对出境点的径流变化过程影响,为评价水电站建设对水生态环境影响提供了一种途径.

关键词: 澜沧江 出境点 水电站建设 径流分析

Abstract: On the Lancangjiang main stream,hydropower stations have been programming and building.The paper utilizes the Water Resource Model for the Whole Basin (WRMWB) which developed by author and colleague,and the method for analyzing hydropower station trouble to the runoff,for analysing the change process of runoff in building hydropower station.The results indicated that①The runoff process of leave country section mainly consistent to upstream water instance,but there is a slightly disturbance when low water in remote future year; ②Although upstream water instance is differ,the harassment of hydropower stations has consistency on runoff in the same scene year.Remote future year the affection is obvious most of all; ③Along with hydropower station building,harassment on runoff is more clearer within year.But annual gross runoff keep its balance;④ The model and analysis method can calculate the affection of hydropower stations harassing on runoff.It gives a way to evaluate affection of power station on hydro-environment.

Key words:

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