

## 小型灌溉水库群优化调度图解法

### Graphic method for irrigation optimal allocation of small reservoir system

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中文摘要:

动态空库系数图解法是一种以弃水量最小为目标函数的水库群简易优化调度方法, 适用于小型水库群的灌溉调度。任一时刻水库的空库系数反映该水库在该时刻的蓄水能力和供水能力。应用时段初各水库空库系数的大小决策水库群的蓄放水次序及放水量的大小, 在满足约束条件下, 时段末保持各水库的空库系数相等, 由此可尽可能多地拦蓄径流, 使弃水量最小。

英文摘要:

The graphic method for dynamic emptying storage coefficient was an irrigation optimal allocation based on function of the least waste water level of reservoir system. This method mentioned above was applied to irrigation optimal allocation for small reservoir system. By using this method, the emptying storage coefficient of a reservoir at any time indicated the capacity of water storage and water supply of the reservoir at that time. The water storage, water drawing off order and capacity of a reservoir system were determined by the emptying storage coefficients of every reservoir at the initial time. The emptying storage coefficients of every reservoir were kept equal at the end of the interval under constraints of reservoir system. In this way, runoff was retained in reservoirs as much as possible and the waste water level of reservoirs was the lowest.

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