短文

一种水电站最优发电实时控制算法及其应用

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摘要
作者研究了一种新的水电站最优发电实时控制迭代算法. 其基本思想简单清晰, 易于实现. 这种算法对水电站发电机组的负荷经济分配和机组的最优组合相当有效. 以该算法为基础的控制系统已实际应用于黄坛口水电站的微机实时监控系统中. 现场运行表明, 本算法具有实时性、平稳性和最优性.

关键词　实时控制　最优发电控制　计算机监控

分类号

An AGC Real-Time Algorithm for Hydropower Station and its Application

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Abstract
A new real-time control algorithm for the Automatic Generation Control (AGC) of hydropower station is developed in this paper. The algorithm is quite powerful to optimize the load sharing of hydro generation units and the combination of the operating units. Based on the algorithm, a real-time control system has been designed and operated as a part of the supervisory system in Huangtankuo Hydropower Station, Zhejiang Province. The operation shows that the algorithm has stronger stability and optimality and is suitable to real-time control.

Key words　Real-time control　automatic generation control (AGC)　computer supervisory system

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通讯作者

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