

FUEL COST OPTIMIZATION OF HYDRO-THERMAL SYSTEM

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Abstract:

A functional analytic optimization technique is applied to the problem of optimum scheduling of hydro-thermal power systems. The problem is formulated as an abstract minimum norm problem and the theory of discrete two-point boundary value problems (TPBVP's) is also employed. A generalized contraction mapping algorithm is applied to a sample system to illustrate the results obtained.