论文与报告

城市煤气供应系统优化调度

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摘要

关键词　　<u>城市供气系统</u>　<u>优化调度</u>　<u>管网系统简化</u>　<u>分解协调</u>　<u>二次规划</u>

分类号

The Optimal dispatch for Urban Gas Supply Systems

Chen Senfa,Lin Yihong

Abstract

In this paper, algorithms of two levels for optimal dispatch for urban gas supply systems are proposed. First, based on the principle of decomposition-coordination, an algorithm for solving the optimal dispatch problem of mid-pressure distribution system is proposed; second, the analytic solutions of optimal dispatch for low-pressure distribution system are derived and their corresponding algorithm is proposed. The computational examples show that the results obtained are satisfactory.

Key words　　<u>urban gas supply system</u>　<u>optimal dispatch</u>　<u>simplifying network system of pipeline</u>　<u>decomposition-coordination</u>　<u>quadratic programming</u>

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