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论文

集中供热系统水力调节方法

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摘要:

针对目前城市集中供热系统普遍存在的水力失调现象,采用流体网络分析法,建立集中供热系统水力工况的数学模型,并给出求解数学模型的算法;根据模拟分析法,采用网络开发语言JAVA,对具体实例编制相应的模拟调节软件,为有效解决集中供热系统的水力失调问题提供一种新方法.

关键词: 集中供热;水力调节;模拟分析法;数学模型

Research of the hydraulic adjustment method for a district heating system

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Abstract:

To solve the hydraulic maladjustment problem of a district heating system, the fluid network analysis method was adopted to establish a mathematic model of a hydraulic operating mode for a district heating system. The solution algorithm of the mathematic model was given. In addition, simulation regulation software was developed by network developing language JAVA according to the simulation analysis method. This software was developed for a specific real case. Then a new method was provided to effectively solve hydraulic maladjusted problems of a district heating system.

Keywords: district heating system; hydraulic adjustment; simulation analysis method; mathematic model

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