监督保障

60 高级搜索

党建文化

传播者

国际合作

经营管理

人力资源

客户服务

新闻中心

公司概况

社会责任

业务概况 规划建设

基于分层模型配电网结构知识表示的拓扑分析方法 袁建刚, 朱永利

生产调度

摘要:提出基于分层模型的配电网建模和拓扑分析方法,对配电网的结构知识表示采用了分层处理的方法,整个配电网分为 厂站层、线路网络层。其中线路网络层又分成双层树结构,上层树结构表示出线断路器、分段开关、联络开关的逻辑连接关系,下 层树结构表示负荷节点与邻近开关的逻辑关系。人工智能的框架表示法,可以方便的完成配电网结构知识表示,并且为实现了基于 电网图搜索的拓扑分析方法打下基础,实践表明该方法实现简单,可靠实用。

关键词: 配电网; 知识表示; 电网建模; 拓扑分析; 人工智能

A Method of Topological Analysis Based on Structure of Knowledge Representation for Distribution Network of Hierarchical Model

YUAN Jiangang, ZHU Yongli

Abstract: A novel method of distribution network modeling and connectivity analysis based on Hierarchical model of distribution is presented. The structure knowledge of distribution network is represent by hierarchical model. The entire distribution network is divided into plant station layer, network layer lines. Line network layer is divided into double-tree structure, the upper tree structure express Logical relationship of feeder breakers, switches, contact switches, the lower tree structure express load nodes and the logical relationship between the neighboring switch. Artificial intelligence framework for representation which suit to The structure knowledge of distribution network, so that create a very good condition for topological analysis based on the grid search method. Practice shows that the implementation of the method is simple, reliable and practical.

Key words: distribution network; express of knowledge; network modeling; topological analysis; artificial intelligence

点击此处下载

关闭窗口

关于南网 | 网站导航 | 服务条款 | 反馈留言 | 隐私保护 | 网上调查 | 使用帮助

中国南方电网有限责任公司 www.csg.cn 版权所有 Copyright © 2003-2010 China South Grid (csg). All rights reserved 地址:广东省广州市天河区珠江新城华穗路6号 邮编: 510623 联系电话: (86-020)38122222 传真: (86-020)38865670 邮件: nfdwb@csg. cn 粤ICP备06044847号