

电力系统

矿井电网单相漏电瞬时序网络模型

赵建文<sup>1</sup>, 侯媛彬<sup>1</sup>, 尹项根<sup>2</sup>

1. 西安科技大学 电气与控制工程学院, 陕西省 西安市 710054; 2. 华中科技大学 电气与电子工程学院, 湖北省 武汉市 430074

摘要:

传统矿井电网单相漏电的各序网络模型只能描述单相漏电的稳态特征,为此采用瞬时对称分量法建立了矿井电网单相漏电瞬时序网络模型,该模型可用于分析单相漏电的暂态和稳态特征,并利用该模型给出了单相漏电的瞬时零序电压和瞬时零序电流的数学表达式,可为单相漏电保护研究提供参考。

关键词:

Instantaneous Sequence Network Model of Single-Phase Leakage in Distribution Network for Coal Mine

ZHAO Jianwen<sup>1</sup>, HOU Yuanbin<sup>1</sup>, YIN Xianggen<sup>2</sup>

1. School of Electrical and Control Engineering, Xi'an University of Science and Technology, Xi'an 710054, Shaanxi Province, China; 2. College of Electrical and Electronic Engineering, Huazhong University of Science and Technology, Wuhan 430074, Hubei Province, China

Abstract:

Traditional sequence network models of mine distribution network can but describe steady state characteristic of single-phase leakage of this network, for this reason by use of instantaneous symmetrical component an instantaneous sequence network model of single-phase leakage in mine distribution network is built. The proposed model can be used to analyze transient and steady state characteristics of single-phase leakage, and based on this model the mathematical expressions of instantaneous zero sequence voltage and zero sequence current under single-phase leakage, which is available in the research on single-phase leakage protection, are deduced.

Keywords:

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通讯作者: 赵建文

作者简介:

作者Email: xkdzhaojw@163.com

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