

A Review of methodologies for Fault Location Techniques in Distribution Power System

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Abstract

Since recent societies became more hooked into electricity, a higher level of power supply continuity is required from power systems. The expansion of those systems makes them liable to electrical faults and several failures are raised due to totally different causes, like the lightning strikes, power system element failure caused by mechanical aging as well as human mistakes. These conditions impact the stability of the power as well as lead to costly maintenance and loss of output.

This article examines the latest technologies and strategies to determine the location of faults in medium voltage distribution systems. The aim is to classify and assess different strategies in order to determine the best recommended models in practice or for further improvement. Several ways to locate failures in distribution networks have therefore been established. Because faults are unpredictable, quick fault location as well as isolating are necessary to reduce the impact of faults in distribution networks as well as removing the emergency condition from the entire system. This study also includes a comprehensive evaluation of several defect location methods depending on the algorithm employed, the input, the test system, the characteristics retrieved, and the degree of complexity. In order to gain further insight into the strengths and limitations of each method and also comparative analysis is carried out. Then the main problems of the fault location methods in distribution network are briefly expounded.

KEYWORDS: Distribution System, Fault location techniques, Transmission line Fault, Artificial intelligence, PMUs.

1. INTRODUCTION

Electrical networks include generating, transmission, and distribution networks. The distribution system is the final step in the transmission of power to individual consumers. Because of the rapid growth in human life demands over the last several decades, both power requirements, as well as the number of electric consumers, have expanded. As a result, distribution networks have had to expand distribution lines as well as feeders to meet consumer demand. As society is becoming more dependent on energy, more electric power reliability is needed, as is the development of innovative methods and techniques for detecting and locating problems and restoring power as quickly as feasible.

For several decades, companies and electricity generation specialists have studied the causes of power failures on power distribution systems. The principal cause for energy failures in electricity systems is electric failures, especially those in distribution systems (line-to-ground fault around 70%). These defects are caused by a variety of factors, such as failure of facilities, lightning, storms, harmful weather,

rain, breakdown of isolations, trees, birds and so on [1][2]. The fast and precise location of faults on the distribution system improves the reliability of the system and supply continuity, faster power supply recovery and therefore lower service shutdown times. Different strategies are being suggested to allow operational engineers to find the fault as quickly as feasible, based on the essential problems of failure location.

In contrast to distribution systems, much of the techniques for locating faults apply to transmission lines. Because of several parallel branches, several taps along with feeders, several conductors, and a complicated structure, besides from a lack of monitoring equipment, there is a lack of communication and information transportation systems so the locating faults in distribution systems is a difficult process [3]. In this study the most up-to-date technologies and categorize and analyze various techniques identifying location of the fault on distribution systems depending on the algorithm employed, the input, the test system, the characteristics retrieved, and the degree of complexity are



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Review Of Fault Location Methods For Distribution Power System:

Advanced Technologies, Systems, and Applications III Samir Avdaković, 2018-11-03 This book introduces innovative and interdisciplinary applications of advanced technologies Featuring the papers from the 10th DAYS OF BHAAAS Bosnian Herzegovinian American Academy of Arts and Sciences held in Jahorina Bosnia and Herzegovina on June 21 24 2018 it discusses a wide variety of engineering and scientific applications of the different techniques Researchers from academic and industry present their work and ideas techniques and applications in the field of power systems mechanical engineering computer modelling and simulations civil engineering robotics and biomedical engineering information and communication technologies computer science and applied mathematics Artificial Intelligence Applications in Electrical Transmission and Distribution Systems Protection Almoataz Y. Abdelaziz, Shady Hossam Eldeen Abdel Aleem, Anamika Yadav, 2021-10-21 Artificial intelligence AI can successfully help in solving real world problems in power transmission and distribution systems because AI based schemes are fast adaptive and robust and are applicable without any knowledge of the system parameters This book considers the application of AI methods for the protection of different types and topologies of transmission and distribution lines It explains the latest pattern recognition based methods as applicable to detection classification and location of a fault in the transmission and distribution lines and to manage smart power systems including all the pertinent aspects FEATURES Provides essential insight on uses of different AI techniques for pattern recognition classification prediction and estimation exclusive to power system protection issues Presents an introduction to enhanced electricity system analysis using decision making tools Covers AI applications in different protective relaying functions Discusses issues and challenges in the protection of transmission and distribution systems Includes a dedicated chapter on case studies and applications This book is aimed at graduate students researchers and professionals in electrical power system protection stability and smart grids *Power System Fault Diagnosis* Md Shafiullah, M. A. Abido, A. H. Al-Mohammed, 2022-01-14 *Power System Fault Diagnosis A Wide Area Measurement Based Intelligent Approach* is a comprehensive overview of the growing interests in efficient diagnosis of power system faults to reduce outage duration and revenue losses by expediting the restoration process This book illustrates intelligent fault diagnosis schemes for power system networks at both transmission and distribution levels using data acquired from phasor measurement units It presents the power grid modeling fault modeling feature extraction processes and various fault diagnosis techniques including artificial intelligence techniques in steps The book also incorporates uncertainty associated with line parameters fault information resistance and inception angle load demand renewable energy generation and measurement noises Provides step by step modeling of power system networks distribution and transmission and faults in MATLAB SIMULINK and real time digital simulator RTDS platforms Presents feature extraction processes using advanced signal processing techniques discrete wavelet and Stockwell transforms and an easy to understand optimal feature selection method Illustrates comprehensive results in the graphical

and tabular formats that can be easily reproduced by beginners Highlights various utility practices for fault location in transmission networks distribution systems and underground cables **Special Technical Conference: Underground Residential Distribution. Advance Proceedings of the Underground Residential Distribution Conference, St. Louis, M., April 21-23, 1964. Sponsored Jointly by IEEE Insulated Conductors and Transmission and Distribution Committees** Institute of Electrical and Electronics Engineers,1964 **Eighth IEE International Conference on Developments in Power System Protection, 5-8 April, 2004, RAI Centre, Amsterdam, The Netherlands ,2004**

Transactions of the American Institute of Electrical Engineers American Institute of Electrical Engineers,1963 The Electrical Review ,1929 **IEEE/PES Transmission and Distribution Conference and Exhibition 2002: Asia Pacific** ,2002 **Analysis techniques of diagnosis high voltage underground cables** Hussain Mahdi,2016-10-24 Thesis M A from the year 2015 in the subject Electrotechnology grade Warsaw University of Technology Electrical Engineering language English abstract This study is focused on installations and faults diagnosis of high voltage underground cables and examined on the various ways through which they can be identified and corrected It has been found that wear and tear is one of the major issues leading to electric faults like power loss There has been seen that several causes of failure which could be identified with them and analyze better ways of detecting them So it has been looked at how to detect degradation of insulation of the underground cable After a thorough analysis of fault detection techniques have been explained the pre location fault techniques is described I illustrated many methods which aid to discover the fault location I also developed a method which contributes in pre location of the fault based on Matlab simulation and mathematical slope equation This method was invented after the observation that the voltages measured at the local and remote substations after filtering and after Fourier analysis showed a linear behavior that was proportional to the respective distances between the fault location and the mentioned substations or generators Thus the developed method exploits such a linearity to estimate the fault location by interpolation assuming that the parameters of the line are previously known and that dedicated devices are located on site in both substations to provide post fault measurements of the faulted line Finally I clarify many pin pointing methods to precisely determine the fault location Journal of the Institution of Electrical Engineers ,1929

Proceedings of the Institution of Electrical Engineers Institution of Electrical Engineers,1930 Vols 56 61 accompanied by Institution notes no 1 40 Dec 1917 Oct 1923 v 10 and 57 each accompanied by a suppl other vols accompanied by special issues and supplements **Science Abstracts** ,1930 *Electrical Review and Western Electrician* ,1910 **Journal** ,1929 Includes annual report of its council 1941 48 in pt 1 New York Review of the Telegraph and Telephone and Electrical Journal ,1901 Electric Energy Conference, Sydney, 13-17 October, 1980 Institution of Engineers Australia. National Committee on Electric Power Engineering,1980 The theme of the Conference is Distribution and Utilisation of Electric Energy The aim of the Conference is to advance practice and knowledge in the areas of distribution and

utilisation of electric energy and to provide a venue for exchanges of experience and ideas between engineers from throughout Asia and the Pacific Regions **Power Distribution Conference** ,1992 **The Engineering Index** ,1968
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