

Simple and efficient method for load flow solution of radial distribution networks

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The paper presents a simple and efficient method for solving radial distribution networks. The proposed method involves only the evaluation of a simple algebraic expression of voltage magnitudes and no trigonometric functions as opposed to the standard load flow case. Thus, computationally, the proposed method is very efficient and it requires less computer memory. The proposed method can handle different types of load characteristics. Several Indian rural distribution networks have been successfully solved by using the proposed method.

Keywords: distribution load flow, mathematical techniques, radial networks

1. Nomenclature

N	total number of nodes
LVI	total number of branches ($LVI = N-1$)
$P_i(j)$	real power load of i th node
$Q_i(j)$	reactive power load of i th node
$ V_i(j) $	voltage magnitude of i th node
$R_i(j)$	resistance of i th branch
$X_i(j)$	reactance of i th branch
$I_i(j)$	current flowing through branch i
$P_{loss}(2)$	total real power loss fed through node $n2$
$Q_{loss}(2)$	total reactive power loss fed through node $n2$

$\theta(n2)$	voltage angle of node $n2$
$P_{loss}(j)$	real power loss of branch j
$Q_{loss}(j)$	reactive power loss of branch j
$RS(j)$	sending end node of branch j
$RR(j)$	receiving end node of branch j
P_{LOSS}	total real power loss
Q_{LOSS}	total reactive power loss

2. Introduction

Load flow analysis of distribution systems has not received much attention unlike load flow analysis of transmission systems. However, some work has been carried out on load flow analysis of a distribution network but the choice of a solution method for a practical system is often difficult. Generally distribution networks are radial and the R/X ratio is very high.

Because of this, distribution networks are ill-conditioned, and conventional Newton-Raphson (NR) and fast decoupled load flow (FDLF) methods¹⁻³ are inefficient in solving such networks.

Many researchers⁴⁻⁷ have suggested modified versions of the conventional load flow methods for solving ill-conditioned power networks.

Recently researchers have paid much attention to obtaining the solution of distribution networks.

Kersting and Meade⁸ and Kersting⁹ have presented a load flow technique based on the ladder network theory and it appears to work very well. Shirmohammadi et al.¹⁰ have presented a compensation-based power flow

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Clinical Diagnosis; a Manual of Laboratory Methods Benjain Baxter Wells, 1919 A working manual of clinical pathology

Applications of Evolutionary Computing Mario Giacobini, Anthony Brabazon, Stefano Cagnoni, Gianni A. Di Caro, Rolf Drechsler, Aniko Ekart, Anna I. Esparcia-Alcazar, Muddassar Farooq, Andreas Fink, Jon McCormack, Michael O'Neill, Juan Romero, Franz Rothlauf, Giovanni Squillero, Sima Uyar, Shengxiang Yang, 2008-04-03 Evolutionary computation EC techniques are efficient nature inspired planning and optimization methods based on the principles of natural evolution and genetics Due to their efficiency and simple underlying principles these methods can be used in the context of problem solving optimization and machine learning A large and continuously increasing number of researchers and professionals make use of EC techniques in various application domains This volume presents a careful selection of relevant EC examples combined with a thorough examination of the techniques used in EC The papers in the volume illustrate the current state of the art in the application of EC and should help and inspire researchers and professionals to develop efficient EC methods for design and problem solving All papers in this book were presented during EvoWorkshops 2008 which consisted of a range of workshops on application oriented aspects of EC Since 1998 EvoWorkshops has provided a unique opportunity for EC researchers to meet and discuss

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Application of Soft Computing and Intelligent Methods in Geophysics Alireza Hajian, Peter Styles, 2018-06-21. This book provides a practical guide to applying soft computing methods to interpret geophysical data. It discusses the design of neural networks with Matlab for geophysical data as well as fuzzy logic and neuro fuzzy concepts and their applications. In addition, it describes genetic algorithms for the automatic and/or intelligent processing and interpretation of geophysical data.

The Fundamentals of Computational Intelligence: System Approach Mikhail Z. Zgurovsky, Yuriy P. Zaychenko, 2016-07-01. This monograph is dedicated to the systematic presentation of main trends, technologies and methods of computational intelligence (CI). The book pays big attention to novel important CI technology: fuzzy logic (FL) systems and fuzzy neural networks (FNN). Different FNN including new class of FNN cascade and neuro fuzzy neural networks are considered and their training algorithms are described and analyzed. The applications of FNN to the forecast in macroeconomics and at stock markets are examined. The book presents the problem of portfolio optimization under uncertainty, the novel theory of fuzzy portfolio optimization free of drawbacks of classical model of Markowitz as well as an application for portfolios optimization at Ukrainian, Russian and American stock exchanges. The book also presents the problem of corporations bankruptcy risk forecasting under incomplete and fuzzy information as well as new methods based on fuzzy sets theory and fuzzy neural networks and results of their application for bankruptcy risk forecasting are presented and compared with Altman method. This monograph also focuses on an inductive modeling method of self-organization, the so-called Group Method of Data Handling (GMDH) which enables to construct the structure of forecasting models almost automatically. The results of experimental investigations of GMDH for forecasting at stock exchanges are presented. The final chapters are devoted to theory and applications of evolutionary modeling (EM) and genetic algorithms. The distinguishing feature of this monograph is a great number of practical examples of CI technologies and methods application for solution of real problems in technology, economy and financial sphere in particular forecasting, classification, pattern recognition, portfolio optimization, bankruptcy risk prediction under uncertainty which were developed by authors and published in this book for the first time. All CI methods and algorithms are presented from the general system approach and analysis of their properties, advantages and drawbacks that enables practitioners to choose the most adequate method for their own problems solution.

Optimization Methods in Manufacturing Processes Anand J. Kulkarni, 2025-08-05. This book presents the result of an innovative challenge to create a systematic literature overview driven by machine-generated content. Questions and related keywords were prepared for the machine to query, discover, collate and structure by Artificial Intelligence (AI) clustering. The AI-based approach seemed especially suitable to provide an innovative perspective as the topics are indeed both complex.

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Dynamic Functional Connectivity in Neuropsychiatric Disorders: Methods and Applications, volume II Zaicu Cui, Feng Liu, Wenbin Guo, Yuqi Cheng, Zhifen Liu, 2023-06-07 Neuropsychiatric disorders have a huge impact on individuals families and societies However the neuropathology underlying cognitive deficits in neuropsychiatric disorders remains unclear Resting state functional connectivity provides a powerful way to investigate functional alterations underlying cognitive deficits in neuropsychiatric disorders Traditional FC analysis measures the correlations of signals with an assumption that functional connectivity remains constant during the observation period In recent years several studies have demonstrated the feasibility of dynamic methods in characterization of functional brain changes such as dynamic functional connectivity investigated by a sliding window method However selection of window size window stepsize and window type are open areas of research and an important parameter to capture the resting state FC dynamics

Scientific and Technical Aerospace Reports , 1995

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