

Method for load-flow solution of radial distribution networks

S. Ghosh and D. Das

Abstract: A simple and efficient method for solving radial distribution networks is presented. The proposed method involves only the evaluation of a simple algebraic expression of receiving-end voltages. Computationally, the proposed method is very efficient. The effectiveness of the proposed method is demonstrated through three examples.

List of symbols

NB	= total number of nodes
$LN1$	= total number of branches
j	= branch number, $j = 1, 2, 3, \dots, LN1$
$PL(i)$	= real power load at i th node
$QL(i)$	= reactive power load at i th node
$V(i)$	= voltage of i th node
$R(j)$	= resistance of j th branch
$X(j)$	= reactance of j th branch
$Z(j)$	= impedance of branch j
$I(j)$	= current that flows through branch j
$IL(i)$	= load current of node i
$LP(j)$	= real-power loss of branch j
$LQ(j)$	= reactive-power loss of branch j
$IS(j)$	= sending-end node of branch j
$IR(j)$	= receiving-end node of branch j
$y_i(i)$	= charging admittance at node i
$I_C(i)$	= charging current at node i
$DIFFMAX$	= maximum voltage difference

1 Introduction

Little attention has been given to load-flow analysis of distribution systems, unlike load-flow analysis of transmission systems. However, some work has been carried out on load-flow analysis of distribution networks, 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. For this reason, conventional Newton-Raphson (NR) [1] and fast decoupled load-flow [2] methods do not converge. Many researchers have suggested modified versions of the conventional load-flow methods for solving power networks with high R/X ratio [3–5].

Kersting and Mendive [6] and Kersting [7] have developed a load-flow technique for solving radial distribution networks using ladder-network theory. They have

developed the ladder technique from basic ladder-network theory into a working algorithm, applicable to the solution of radial load-flow problems. Savaris *et al.* [8] have shown that the ladder technique is found to be fastest but did not converge in five out of 12 cases studied. Shirmohammadi *et al.* [9] have proposed a method for solving radial distribution networks based on the direct application of Kirchhoff's voltage and current laws. They have developed a branch-numbering scheme to enhance the numerical performance of the solution method. They have also extended their method for solution of weakly meshed networks. Baran and Wu [10] have obtained the load-flow solution in a distribution system by the iterative solution of three fundamental equations representing real power, reactive power and voltage magnitude. They have computed the system Jacobian matrix using a chain rule. In their method, the mismatches and the Jacobian matrix involve only the evaluation of simple algebraic expressions and no trigonometric functions. They have also proposed decoupled and fast decoupled distribution load-flow algorithms. Chiang [11] has also proposed three different algorithms for solving radial distribution networks based on the method proposed by Baran and Wu [10]. He has proposed decoupled, fast decoupled and very fast decoupled distribution load-flow algorithms. In fact decoupled and fast decoupled distribution load-flow algorithms proposed by Chiang [11] are similar to that of Baran and Wu [10]. However, the very fast decoupled distribution load flow proposed by Chiang [11] is very attractive because it does not require any Jacobian matrix construction and factorisation. Renato [12] has proposed one method for obtaining a load-flow solution of radial distribution networks. He has calculated the electrical equivalent for each node summing all the loads of the network fed through the node including losses and then, starting from the source node, the receiving-end voltages of all the nodes are calculated. Goswami and Basu [13] have presented a direct method for solving radial and meshed distribution networks. However, the main limitation of their method is that no node in the network is the junction of more than three branches, i.e. one incoming and two outgoing branches. Jasson and Lee [14, 15] have proposed a new load-flow method for obtaining the solution of radial distribution networks. They have used the three fundamental equations representing real power, reactive power and voltage magnitude derived in [10]. They have solved the radial distribution network using these three equations by reducing the whole network into a single line equivalent.

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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 neo 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 Markovitz 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

Identity Management with Biometrics Lisa Bock, 2020-10-15 Work with common biometrics such as face fingerprint and iris recognition for business and personal use to ensure secure identification and authentication for fintech homes and computer systems Key Features Explore the next iteration of identity protection and overcome real world challenges Understand different biometric use cases to deploy a large scale biometric system Curated by renowned security ambassador and experienced author Lisa Bock Book Description Biometric technologies provide a variety of robust and convenient methods to securely identify and authenticate an individual Unlike a password or smart card biometrics can identify an attribute that is not only unique to an individual but also eliminates any possibility of duplication Identity Management with Biometrics is a solid introduction for anyone who wants to explore biometric techniques such as fingerprint iris voice palm print and facial

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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

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address this problem from the perspective of uncertainty and randomness of measurement signal In information engineering interval valued neutrosophic sets IVNSs belief rule base BRB and Dempster Shafer D S evidence reasoning are always characterized by the strong ability in revealing uncertainty but each has its drawbacks As a result the three theories are firstly combined in this paper to form a powerful fault detection algorithm Besides a series of innovations are proposed to improve the method including a new score function based on p norm for IVNSs and a new approach of calculating the similarity between IVNSs which are both proved by authoritative prerequisites To illustrate the effectiveness of the proposed method flush air data sensing FADS a technologically advanced airborne sensor is adopted in this paper The aerodynamic model of FADS is analyzed in detail using knowledge of aerodynamics under subsonic and supersonic conditions meanwhile the high precision model is established based on the aerodynamic database obtained from CFD software

Machine Learning Perspectives of Agent-Based Models Pedro Campos, Anand Rao, Joaquim Margarido, 2025-09-19 This book provides an overview of agent based modeling ABM and multi agent systems MAS emphasizing their significance in understanding complex economic systems with a special focus on the emerging properties of heterogeneous agents that cannot be deduced from the characteristics of individual agents ABM is highlighted as a powerful tool for studying economics especially in the context of financial crises and pandemics where traditional models such as dynamic stochastic general equilibrium DSGE models have proven inadequate Containing numerous practical examples and applications with R Python Julia and Netlogo the book explores how learning particularly machine learning can be integrated into multi agent systems to enhance the adaptation and behavior of agents in dynamic environments It compares different learning approaches including game theory and artificial intelligence highlighting the advantages of each in modeling economic phenomena Scientific and Technical Aerospace Reports, 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Water-resources Activities of the U.S. Geological Survey in Illinois** Geological Survey (U.S.), 1993

Applied Mechanics Reviews, 1977 *Cognitive Computation and Systems* Bin Xu, Jianlong Qiu, 2025-07-21 This book constitutes the refereed proceedings of the Third International Conference on Cognitive Computation and Systems ICCCS 2024 held in Linyi China December 20 22 2024 The 54 revised full papers presented in these proceedings were carefully reviewed and selected from 155 submissions The papers are organized in the following topical sections Part I Cognitive computing and information processing Intelligent cooperative control and Learning and systems Part II Cognitive computing and information processing Intelligent cooperative control and Learning and systems Transactions of the American Nuclear Society, 1977 **Graph Learning and Network Science for Natural Language Processing** Muskan Garg, Amit Kumar Gupta, Rajesh Prasad, 2022-12-28 Advances in graph based natural language processing NLP and information retrieval tasks have shown the importance of processing using the Graph of Words method This book covers recent concrete

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