

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 solve both 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 ($LVI = N-1$)
$P_L(i)$	real power load of i th node
$Q_L(i)$	reactive power load of i th node
$ V(i) $	voltage magnitude of i th node
$R(j)$	resistance of j th branch
$X(j)$	reactance of j th branch
$I(j)$	current flowing through branch j
P_{LOSS}	total real power loss fed through node $n2$
Q_{LOSS}	total reactive power loss fed through node $n2$

$\theta(n2)$	voltage angle of node $n2$
$P_L(j)$	real power loss of branch j
$Q_L(j)$	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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Scientific and Technical Aerospace Reports ,1995 **Neural Networks and Deep Learning** Charu C.

Aggarwal,2018-08-25 This book covers both classical and modern models in deep learning The primary focus is on the theory and algorithms of deep learning The theory and algorithms of neural networks are particularly important for understanding important concepts so that one can understand the important design concepts of neural architectures in different applications Why do neural networks work When do they work better than off the shelf machine learning models When is depth useful Why is training neural networks so hard What are the pitfalls The book is also rich in discussing different applications in order to give the practitioner a flavor of how neural architectures are designed for different types of problems Applications associated with many different areas like recommender systems machine translation image captioning image classification reinforcement learning based gaming and text analytics are covered The chapters of this book span three

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A fault detection method for FADS system based on interval-valued neutrosophic sets, belief rule base, and D-S evidence reasoning Qianlei Jia, Jiayue Hu, Weiguo Zhang, Fault detection with the characteristics of strong uncertainty and randomness has always been one of the research hotspots in the field of aerospace Considering that devices will inevitably encounter various unknown interference in the process of use which greatly limits the performance of many traditional fault detection methods Therefore the main aim of this paper is to 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

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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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

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

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