

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 $n2$
$P_i(j)$	real power loss of branch j
$Q_i(j)$	reactive power loss of branch j
$RS_i(j)$	sending end node of branch j
$RR_i(j)$	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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