

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

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The paper presents a strugte and afficient washed for solving nation distribution networks. The proposed method involves until the evaluation of a viewell adjoinst corpression of volveys orageistories and no origonometric functions as appeared to the standard tool flow case. Thus, competitionally the proposed touched a very efficient and a requires sets computer organized or a very efficient and a requires sets computer organized, The proposed medical custories boundly different types of load characteristics. Several Indian sural distribution networks have been successfully solved by asing the proposed medical.

Keywords: distribution load flaw, mathematical technologies radial receives

I. Nomenclature

JAC 876 total number of podes. A. 26 B. total number of branches $(LN1 = NB \cdot 1)$ P.T.Say real newer load of th node. QI(0)reactive power load of ith node 16 66 1 woltage magnet ade of 4th node. X(f)resistance of /th branch. reactance of /th hesech. 26.33 current flowing through branch / F120023 total real power load fed through node se2. Q:202: total reactive power load fed through node m2.

Renarced 17 May 1983, racised 17 November 1983; accepted 4. Assess 1994 #(m2) voltage angle of node m2

LP(j) real power loss of branch j

LO(j) reactive power loss of branch j

RN(j) sending end node of branch j

RN(j) receiving-end node of branch j

PLOSS lotal real power loss

QLOSS total reactive power loss

II. Introduction

Lose, few analysis of distribution systems has not received smath actestion unlike head flow analysis of transcension systems. However, some work has been carried out on lead flow analysis of a distribution network but the choice of a solution method for a practical system is often difficult. Generally distribution accessories are radio, 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 (PDL+) methods are inofficient as solving such networks.

Many researchers? have suggested meetined versions of the conventional load line methods for sowing ill-conditioned power personics.

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

Kensting and Mendive² and Kensting² have presented a load flow technique based on the ladder network theory and it appears to work very well. Shirmohammadi et al.^{1,0} have presented a compensation-based power flow

Manual Methods Of Solution For Radial Networks

James Campbell Todd, Arthur Hawley Sanford

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