

LOAD FLOW ANALYSIS OF 9 BUS RADIAL SYSTEM USING BFSLF ALGORITHM

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ABSTRACT

Power system is the most complex man made inter connected system with the combination of power generation, transmission and distribution to the consumer loads. In order to determine the behavior of the entire system i.e., planning and design, economic operation, stability...Etc of the power system the power flow or load studies plays vital role. By using this power flow solution we obtain magnitude and phase angle of voltage at each bus, real and reactive power flowing through the branches by using conventional iterative techniques like Gauss-seidal, Newton Raphson method, Fast decoupled methods. And this paper gives the complete load flow analysis of a radial distribution network with a proposed simple Backward/Forward sweep algorithm method which gives better convergence and takes full advantage of the radial structure of distribution systems tested for the IEEE 9 bus system implemented in MATLAB code.

KEYWORDS: Distribution Systems, Radial Distribution Systems, Power Flow Analysis, Proposed Algorithm