

RESCHEDULING OF REACTIVE POWER CONTROL VARIABLES FOR VOLTAGE PROFILE IMPROVEMENT USING GENETIC ALGORITHM WITH MATLAB

MEGHA JAIN, A. K. GANGULY AND S. C. CHOUBE

Abstract

This paper deals with genetic algorithm (GA) technique for rescheduling of reactive power control variables for voltage profile improvement with the help of Matlab. The proposed algorithm was tested on the IEEE-6 bus system. Load flow results are obtained using Newton-Raphson power flow method. The results obtained after sixth generation indicate that GA is capable of performing its task.

Key Words: Genetic Algorithm (GA), Reactive power control and Voltage control.