Title: Load Flow Analysis of 181-bus Indian Power System using OpenModelica and Open-IPSL

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Abstract:

Load flow analysis is for a power system necessary for planning, operation, economic scheduling and exchange of load between utilities. The principal information of load flow analysis is to find the magnitude and phase angle of voltage at each bus and the real and reactive power flowing in each transmission lines. We have selected 181-bus Indian Power System (TNEB System) to perform load flow analysis. The system will be simulated using Modelica and Open-IPSL. The data for Indian power system is taken from the following reference.

https://shodhganga.inflibnet.ac.in/bitstream/10603/141135/18/18_appendix%202.pdf