

CONGESTION MANAGEMENT IN POWER SYSTEM USING OPTIMAL POWER FLOW TOPOLOGY

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ABSTRACT

Transmission line outage and generator outage factor are due to the increasing demand, thereby congesting or deregulating the power systems. When the transmission system attains or exceeds the transfer capability limit, it results in congestion of the power systems. The transfer capability limit of the transmission lines involves line voltage limit, thermal limit, stability limit, etc. Power line congestion will lead to huge power losses, poor voltage regulation, increase in temperature etc. For efficient power transfer capability, it is essential to relieve the congestion.

KEYWORDS: Congestion Management in Power System