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(57) Abstract :
 Transmission lines are critical components of every electric power system. Transmission lines are more prone to failure than other main components due to the fact that they are located in open air. With the help of a transmission line model, this research has attempted to address the problems of fault detection and classification, as well as fault location forecasting. The accuracy with which defects are detected and classified in a power system is critical to the system's overall stability, dependability, and uninterrupted service. The purpose of virtual reality is to bring computers and their users even closer together in their interactions. Transmission system security necessitates the development of fault assessment algorithms that are both exceedingly exact and efficient. The chore of maintaining even a lengthy transmission line in remote areas where patrolling is difficult and time-consuming becomes a considerable undertaking.

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