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Technical Brochures

Title:

Protection for developing network with limited fault current capability of generation

Power system protection is of great importance to safety and reliability of the power grid. With new generations (such as wind and solar power sources), network structures and load penetrating all over the power system, traditional protection functions are facing challenges. According to the industrial projects, four testing system benchmarks for protection research of the network with high proportion of power electronic devices are provided in this brochure. Start with the control system and get the fault current characteristics, the short-circuit current model of power electronic devices can be established. On this basis, the technical brochure researches the performance of traditional protection in order to determine the protection configuration principles and explore new protection principles. Then, the novel protection principles of renewable energy power plants, AC/DC hybrid system, and DC distribution system are presented. Most of these protection principles are in the theoretical research stage. It is recommended to do more systematic researches for protection of the developing network.

More Informations :**File Size:**4,8 MB **Pages NB:**120 **Study Committee :** B5 **WG (TF):**WG B5.48 **Year:**2023
