

# Protection And Switchgear Bhavesh Bhalja

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Protection and Switchgear OUP India  
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??Holt,Rinchart and Winston 1983?????. -- ??: Modern digital and analog communication systems/B. P. Lathi  
 ??: More die of heartbreak/Saul Bellow. --1987. --?????????????  
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Protection and Switchgear is designed as a textbook for undergraduate students of electrical and electronics engineering. The book aims at introducing students to the various abnormal operating conditions in power systems, system protection schemes, and the phenomenon of current interruption. With the help of detailed relay and circuit diagrams, the book describes the protection principles of each element of the power system network, including relay design and settings. It also covers digital/ numerical relaying schemes, theories of the circuit breaking phenomenon, and the construction and working of switchgears.

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This book develops novel digital distance relaying schemes to eliminate the errors produced by the conventional digital distance relays while protecting power transmission lines against different types of faults. These include high resistance ground faults on single infeed transmission lines; high resistance ground faults on double infeed transmission lines; simultaneous open conductor and ground fault on double infeed transmission lines; inter-circuit faults on parallel transmission lines; simultaneous open conductor and ground fault on series compensated parallel transmission lines; inter-circuit faults on series compensated parallel transmission lines; and phase faults on series compensated double infeed transmission lines. This monograph also details suggestions for further work in the area of digital protection of transmission lines. The contents will be useful to academic as well as professional researchers working in transmission line protection.

Protection and Switchgear is designed as a textbook for undergraduate students of electrical and electronics engineering. The book aims at introducing students to the various abnormal operating conditions in power systems and to describe the apparatus, system protection schemes, and the phenomena of current interruption to study various switchgears.

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