



Handbook of Power Systems Engineering with Power Electronics Applications

Yoshihide Hase

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Formerly known as *Handbook of Power System Engineering*, this second edition provides rigorous revisions to the original treatment of systems analysis together with a substantial new four-chapter section on power electronics applications. Encompassing a whole range of equipment, phenomena, and analytical approaches, this handbook offers a complete overview of power systems and their power electronics applications, and presents a thorough examination of the fundamental principles, combining theories and technologies that are usually treated in separate specialised fields, in a single unified hierarchy.

Key features of this new edition:

- Updates throughout the entire book with new material covering applications to current topics such as brushless generators, speed adjustable pumped storage hydro generation, wind generation, small-hydro generation, solar generation, DC-transmission, SVC, SVG (STATCOM), FACTS, active-filters, UPS and advanced railway traffic applications
- Theories of electrical phenomena ranging from DC and power frequency to lightning-/switching-surges, and insulation coordination now with reference to IEC Standards 2010
- New chapters presenting advanced theories and technologies of power electronics circuits and their control theories in combination with various characteristics of power systems as well as induction-generator/motor driving systems
- Practical engineering technologies of generating plants, transmission lines, sub-stations, load systems and their combined network that includes schemes of high voltage primary circuits, power system control and protection

A comprehensive reference for those wishing to gain knowledge in every aspect of power system engineering, this book is suited to practising engineers in power electricity-related industries and graduate level power engineering students.

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