



Harmonics, Power Systems, and Smart Grids, Second Edition

Francisco C. De La Rosa

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Harmonics, Power Systems, and Smart Grids, Second Edition compiles the most relevant aspects of harmonics in a way that the unfamiliar reader can better grasp the subject matter and the experienced reader can directly access specific subjects of interest. The text begins with a definition of harmonics, along with analytical expressions for electrical parameters under nonsinusoidal situations, and then:

- Discusses important and widely used industry standards to control harmonic distortion levels
- Describes methods to mitigate the effects of harmonics, detailing the operation principles and design of passive filters and active filter fundamentals
- Presents alternative methods, such as stiffer AC sources, power converters with increased number of pulses, series reactors, and load reconfiguration
- Reviews the elements that play a role in the study of the propagation of harmonic currents in a distribution network
- Explains how to determine power losses in electrical equipment attributed to harmonic waveform distortion
- Covers harmonics from solar and wind power converters and power electronics in FACTS and HVDC technologies
- Explores harmonics from electric vehicles connected to the grid, superconductive fault current limiters, and electric vehicle charging stations

Featuring three new chapters, a number of new examples and figures, and updates throughout, **Harmonics, Power Systems, and Smart Grids, Second Edition** provides a comprehensive reference on harmonic current generation, propagation, and control in electrical power networks, including the broadly cited smart grid.

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