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Smart Grid Sensors

Principles and Applications

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Discover the ever-growing field of smart grid sensors, traditional and state-of-the-art sensor technologies, as well as data-driven and intelligent methods for using sensor measurements in support of innovative smart grid applications.

Covers recent and emerging topics, such as smart meters, synchronized phasor measurements, and synchronized waveform measurements. Additional advanced topics and future trends are also discussed, such as situational awareness, probing, and working with off-domain measurements.

Including real-world examples, exercise questions, and sample data sets, this is an essential text for students, researchers, and scientists, as well as field engineers and practitioners in the areas of smart grid and power systems.

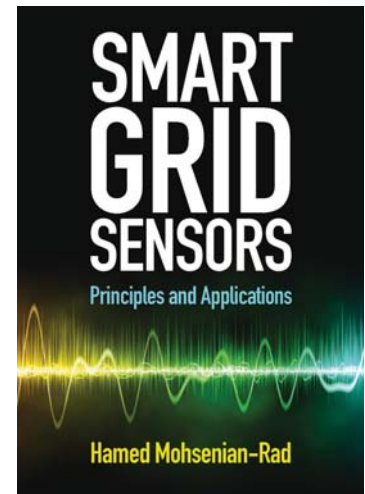
Chapters:

- Background
- Voltage and Current Measurements and their Applications
- Phasor and Synchrophasor Measurements and their Applications
- Waveform and Power Quality Measurements and their Applications;
- Power and Energy Measurements and their Applications;
- Probing and its Applications;
- Other Sensors and Off-Domain Measurements and their Applications;

Online Resources (<https://www.cambridge.org/mohsenian-rad>):

- Student Resources: Data Sets
- Instructor Resources*: Solutions Manual, Computer Programs

*In addition, instructors may request the Instructional Slides directly from the author at hamed@ece.ucr.edu.



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