



# Power Plant Stability Capacitors and Grounding: Numerical Solutions: Numerical Solutions

*Orlando N. Acosta*

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# Power Plant Stability Capacitors and Grounding: Numerical Solutions: Numerical Solutions

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## Design and maintain highly stable electrical power systems

*Power Plant Stability, Capacitors, and Grounding* is filled with numerical solutions of differential equations to help you solve complex electrical problems regarding the stability of powergenerating systems. After an overview of fundamental electrical engineering concepts, the book focuses on power system stability, high-voltage capacitors, safety, and electrical substation grounding systems.

Case studies, problems, and examples are worked out and explained in great detail. The material presented in this practical guide is essential for the design, installation, operation, and maintenance of the vast network of interconnected electrical power systems.

Coverage includes:

- \* Power system basic knowledge
- \* Power system stability
- \* Transient stability problem in a simple electrical network
- \* Transient stability problem in a multimachine network
- \* High-voltage AC capacitors
- Substation grounding
- \* Dangerous electric currents
- \* Ground grid preliminary design
- Principles of ground mat design
- \* Ground mat design with nonuniform current distribution

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