



Essentials of Natural Gas Microturbines

Valentin A. Boicea

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Addressing a field which, until now, has not been sufficiently investigated, **Essentials of Natural Gas Microturbines** thoroughly examines several natural gas microturbine technologies suitable not only for distributed generation but also for the automotive industry. An invaluable resource for power systems, electrical, and computer science engineers as well as operations researchers, microturbine operators, policy makers, and other industry professionals, the book:

- Explains the importance of natural gas microturbines and their use in distributed energy resource (DER) systems
- Discusses the history, development, design, and operation of gas microturbines
- Introduces the Evolutionary Algorithm for pollutant emissions and fuel consumption minimization
- Analyzes the power electronics for grid connection of natural gas microturbines
- Includes actual power quality measurements—graphical representations and numerical data—from a real system
- Contains 39 color figures

Readers benefit from the clarity and practicality of **Essentials of Natural Gas Microturbines**, ultimately learning new techniques to increase electrical load efficiency, keep the environment cleaner, and improve equipment exploitation based on mathematical results.

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