



# Gas Turbines: A Handbook of Air, Land and Sea Applications

By Claire Soares

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This major reference book offers the professional engineer - and technician - a wealth of useful guidance on nearly every aspect of gas turbine design, installation, operation, maintenance and repair. The author is a noted industry expert, with experience in both civilian and military gas turbines, including close work as a technical consultant for GE and Rolls Royce.

- Guidance on installation, control, instrumentation/calibration, and maintenance, including lubrication, air seals, bearings, and filters
- Unique compendium of manufacturer's specifications and performance criteria, including GE, and Rolls-Royce engines
- Hard-to-find help on the economics and business-management aspect of turbine selection, life-cycle costs, and the future trends of gas turbine development and applications in aero, marine, power generation and beyond

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### **Editorial Review**

From the Back Cover

ELSEVIER Butterworth-Heinemann LOGO]

Technology: Engineering. General

Gas Turbines

A Handbook of Air, Land and Sea Applications

Claire Soares

Registered professional engineer in Texas, turbo machinery specialist in the oil and gas, power generation, and process industries. Currently serves as managing director of EMM Systems in Dallas, Texas.

### **KEY FEATURES**

" Overview of major components, with a brief history of theory and development

" Important maintenance-related chapters

" Unique offering of manufacturer's specifications and performance criteria and future trends

" One-of-a-kind guidance on the economics and business management of turbine selection, as well as on installation and instrumentation/calibration

No other current publication offers the professional engineer or technician the wealth of useful guidance on nearly every aspect of gas turbine design, installation, operation, maintenance and repair as this book does. Gas Turbines makes the job of any engineer involved in the design, selection, operation and maintenance of most nearly any type of gas turbine more efficient and more successful. The book offers the reader a big picture view of how to make the right decisions when planning what type of gas turbine to use for a particular application, taking into consideration not only operational requirements but long-term life-cycle costs in upkeep and repair and future usage.

Concise overviews of all important theoretical bases in thermodynamics and fluid dynamics upon which gas turbine engines depend are presented. The author is an experienced industry consultant, with experience at such leading manufacturers of gas turbines as GE and Rolls Royce and relates how factors affect proper design, correct selection and specifications, and long-term successful operation for the application in question.. The book offers professional engineers hard-to-find manufacturer's data with extensive interpretation and explanation.

Contents:

Chapter 1: Gas turbines: An Introduction and Applications.; Chapter 2: History of gas turbines.; Chapter 3: Basic heat cycles of gas turbine applications; Chapter 4: Major components; Chapter 5: Cooling and load bearing systems; Chapter 6: Inlets, exhausts and noise suppression. ; Chapter 7: Fuels; Chapter 8: Accessory systems; Chapter 9: Controls, Instrumentation and Diagnostics; Chapter 10: Gas turbine performance, performance testing and performance optimization; Chapter 11: Environmental technology; Chapter 12: Maintenance, Repair and Overhaul; Chapter 13: Installation; Chapter 14: Manufacturing, materials; Chapter 15: The business of gas turbines; Chapter 16: Microturbines, Fuel cells and hybrids; Chapter 17: Education and training; Chapter 18: Future trends; Chapter 19: Basic design theory; Chapter 20: References and Resources

Related titles:

The Gas Turbine Handbook, 2nd Edition, Boyce, 2001, 9780884157328

Fluid Mechanics and Thermodynamics of Turbomachinery, 5th edition, Dixon, 9780750678704

Combustion, 3rd edition, Glassman, 1996, 9780122858529

#### About the Author

Claire Soares is an ASME Fellow and industry consultant with more than 20 years' experience at such leading manufacturers of gas turbines as GE and Rolls Royce. Claire is a recognized turbomachinery specialist with particular expertise in optimal design selection and specification, and ensuring long-term successful operation for a given application.

### **Users Review**

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##### **Robert Densmore:**

This Gas Turbines: A Handbook of Air, Land and Sea Applications book is simply not ordinary book, you have it then the world is in your hands. The benefit you get by reading this book is usually information inside this publication incredible fresh, you will get information which is getting deeper you read a lot of information you will get. That Gas Turbines: A Handbook of Air, Land and Sea Applications without we comprehend teach the one who reading it become critical in contemplating and analyzing. Don't become worry Gas Turbines: A Handbook of Air, Land and Sea Applications can bring when you are and not make your tote space or bookshelves' come to be full because you can have it in your lovely laptop even phone. This Gas Turbines: A Handbook of Air, Land and Sea Applications having great arrangement in word along with layout, so you will not really feel uninterested in reading.

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