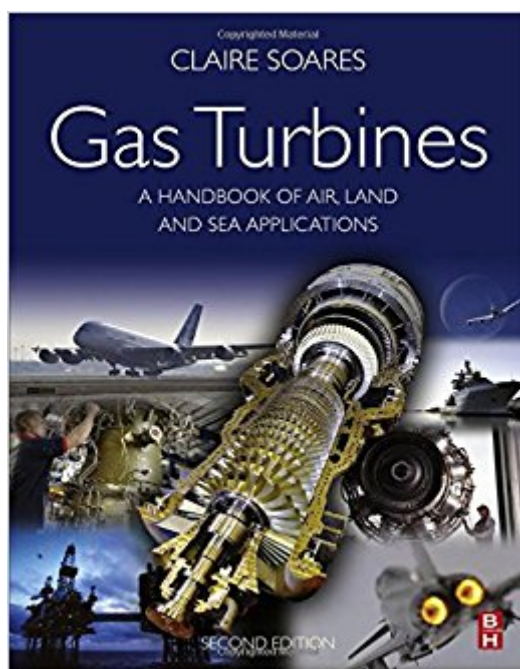


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# Gas Turbines, Second Edition: A Handbook Of Air, Land And Sea Applications



## Synopsis

Covering basic theory, components, installation, maintenance, manufacturing, regulation and industry developments, *Gas Turbines: A Handbook of Air, Sea and Land Applications* is a broad-based introductory reference designed to give you the knowledge needed to succeed in the gas turbine industry, land, sea and air applications. Providing the big picture view that other detailed, data-focused resources lack, this book has a strong focus on the information needed to effectively decision-make and plan gas turbine system use for particular applications, taking into consideration not only operational requirements but long-term life-cycle costs in upkeep, repair and future use. With concise, easily digestible overviews of all important theoretical bases and a practical focus throughout, *Gas Turbines* is an ideal handbook for those new to the field or in the early stages of their career, as well as more experienced engineers looking for a reliable, one-stop reference that covers the breadth of the field. Covers installation, maintenance, manufacturer's specifications, performance criteria and future trends, offering a rounded view of the area that takes in technical detail as well as well as industry economics and outlook. Updated with the latest industry developments, including new emission and efficiency regulations and their impact on gas turbine technology. Over 300 pages of new/revised content, including new sections on microturbines, non-conventional fuel sources for microturbines, emissions, major developments in aircraft engines, use of coal gas and superheated steam, and new case histories throughout highlighting component improvements in all systems and sub-systems.Â

## Book Information

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The broadest gas turbine introductory reference available, helping you get up to speed fast with theory, background and wide-ranging applications. Provides an overview of major components alongside critical theory and development history for gas turbine technology. Covers installation, maintenance, manufacturer's specifications, performance criteria and future trends, offering a rounded view of the area that takes in technical detail as well as industry economics and outlook. Updated with the latest industry developments, including new emission and efficiency regulations and their impact on gas turbine technology. Covering basic theory, components, installation, maintenance, manufacturing, regulation and industry developments, *Gas Turbines: A Handbook of Air, Sea and Land Applications* is a broad-based introductory reference designed to give you the knowledge needed to succeed in the gas turbine industry. Providing the big picture view that other detailed, data-focused resources lack, this book has a strong focus on the information needed to effectively decision make and plan gas turbine use for particular applications, taking into consideration not only operational requirements but long-term life-cycle costs in upkeep, repair and future usage. With concise, easily digestible overviews of all important theoretical bases and a practical focus throughout, *Gas Turbines* is an ideal handbook for those new to the field or in the early stages of their career, as well as more experienced engineers looking for a reliable, one-stop reference that covers the breadth of the field.

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.

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