



# Dynamic Modelling of Gas Turbines: Identification, Simulation, Condition Monitoring and Optimal Control (Advances in Industrial Control)

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Whereas other books in this area stick to the theory, this book shows the reader how to apply the theory to real engines. It provides access to up-to-date perspectives in the use of a variety of modern advanced control techniques to gas turbine technology.

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## Editorial Review

### From the Back Cover

Gas turbines play an important role in power generation and aeroengines. An extended survey of methods associated with the control and systems identification in these engines, *Dynamic Modelling of Gas Turbines* reviews current methods and presents a number of new perspectives.

- Describes a total modelling and identification program for various classes of aeroengine, allowing you to deal with the engine's behaviour over its complete life cycle.
- Shows how the above regime can be applied to a real engine balancing the theory with practical use.
- Follows a comparative approach to the study of existing and newly derived techniques thus offering an informed choice of controllers and models from the tried-and trusted to the most up-to-date evolutionary optimisation models.
- Presents entirely novel work in modelling, optimal control and systems identification to help you get the most from your engine designs.

*Dynamic Modelling of Gas Turbines* represents the latest research of three groups of internationally recognised experts in gas turbine studies. It will be of interest to academics working in aeroengine control and to industrial practitioners in companies concerned with their design. The work presented here is easily extendible to be relevant in other areas in which gas turbines play a role such as power engineering.

*Advances in Industrial Control* aims to report and encourage the transfer of technology in control engineering. The rapid development of control technology has an impact on all areas of the control discipline. The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control.

### About the Author

The Editor, Professor Haydn Thompson, has 21 years' experience working in a mixture of senior industrial research and development roles in flight control systems, space programmes and signal processing applications. In 1993 he joined the newly initiated Rolls-Royce Control and Systems University Technology Centre as Programme Manager. He is a consultant to Rolls-Royce, the MoD and the European Commission. He has over 60 publications on applications of distributed systems, multi-disciplinary multi-objective optimisation and gas turbine engine control and fault diagnosis. He has also written a book on gas turbine engine control. He is a member of the International Federation of Automatic Control's (IFAC) International Aerospace Control, Mechatronics and Real-Time Computing and Control Committees, the Institution of Electronic and Electrical Engineers Aerospace Committee, and IEE representative on committees at the IMechE and Royal Aeronautical Society. He is a member of the American Institute of Aeronautics and Astronautics.

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