

## PREDICTION OF TURBULENT FLOWS

The prediction of turbulent flows is of paramount importance in the development of complex engineering systems involving flow, heat and mass transfer, and chemical reactions. Arising from a programme held at the Isaac Newton Institute in Cambridge, England, this volume reviews the current situation regarding the prediction of such flows through the use of modern computational fluid dynamics techniques, and attempts to address the inherent problem of modelling turbulence. In particular, the current physical understanding of such flows is summarised and the resulting implications for simulation discussed. The volume continues by surveying current approximation methods whilst discussing their applicability to industrial problems. This major work concludes by providing a specific set of guidelines for selecting the most appropriate model for a given problem. Unique in its breadth and critical approach, the book will be of immense value to experienced practitioners and researchers, continuing the UK's strong tradition in fluid dynamics.

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Edited by G. F. Hewitt and J. C. Vassilicos  
Frontmatter  
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# PREDICTION OF TURBULENT FLOWS

*Edited by*

G. F. HEWITT AND J. C. VASSILICOS  
*Imperial College, London*



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## Contents

1	Introduction	<i>page</i> 1
	<i>G. F. Hewitt and J. C. Vassilicos</i>	
2	Developments in the understanding and modelling of turbulence	5
	<i>J. C. R. Hunt, N. D. Sandham, J. C. Vassilicos, B. E. Launder, P. A. Monkewitz and G. F. Hewitt</i>	
3	RANS modelling of turbulent flows affected by buoyancy or stratification	50
	<i>B. E. Launder</i>	
4	Turbulent flames	128
	<i>W. P. Jones</i>	
5	Boundary layers under strong distortion: an experimentalist's view	163
	<i>J. F. Morrison</i>	
6	Turbulence simulation	207
	<i>N. D. Sandham</i>	
7	Computational modelling of multi-phase flows	236
	<i>G. F. Hewitt and M. W. Reeks</i>	
8	Guidelines and criteria for the use of turbulence models in complex flows	291
	<i>J. C. R. Hunt and A. M. Savill</i>	