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Chapter 13. A linearised turbulent production in the k-e model for engineering applicationsChapter 14. Direct test of Boussinesq's hypothesis and the K-transport equation using experimental, DNS and LES data; Chapter 15. Application of generalized wall function for complex turbulent flows; Chapter 16. Extensions of the Spalart-Allmaras turbulence model to account for wall roughness; Chapter 17. The prediction of turbulent duct flow with surface roughness using k-e models; Chapter 18. Effect of a compressibility correction on different turbulence models

Part 3: Direct and Large-Eddy SimulationsChapter 19. Direct numerical and large eddy simulations of turbulent flows through concentric annuli; Chapter 20. Large eddy simulation of turbulent compressible channel flow over riblets; Chapter 21. Numerical study of unsteady wake flows over a hill for the oncoming boundary-layer turbulence; Chapter 22. Dynamic subgrid-scale models in rotating turbulence; Chapter 23. A mixed-time-scale SGS model with fixed model-parameters for practical LES; Chapter 24. Numerical study on the difference of the eddy structures between plane and round impinging jets

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Chapter 31. Hybrid LES/RANS simulation of melt convection during crystal growth

Sommario/riassunto	Turbulence is one of the key issues in tackling engineering flow problems. As powerful computers and accurate numerical methods are now available for solving the flow equations, and since engineering applications nearly always involve turbulence effects, the reliability of CFD analysis depends increasingly on the performance of the turbulence models. This series of symposia provides a forum for presenting and discussing new developments in the area of turbulence modelling and measurements, with particular emphasis on engineering-related problems. The papers in this set of proceedings wer