References

1. Abdol-Hamid, K., Lakshmanan, B., and Carlson, J., "Application of Navier-Stokes Code PAB3D with $k - \varepsilon$ Turbulence Model to Attached and Separated Flows," NASA TP 3480, 1995.

2. Abid, R., "Evaluation of Two-Equation Turbulence Models for Predicting Transitional Flows," *International Journal of Engineering Science*, Vol. 31, pp. 831-840, 1993.

3. Abid, R., Rumsey, C., and Gatski, T., "Prediction of Nonequilibrium Turbulent Flows with Explicit Algebraic Stress Models," *AIAA Journal*, Vol. 33, No. 11, pp.2026-2031, November 1995.

4. Amtec Engineering, Inc., *Tecplot Version 6 User's Manual*, 1993.

5. Anderson, W. K., *Implicit Multigrid Algorithms for the Three-Dimensional Flux Split Euler Equations,* PhD thesis, Mississippi State University, 1986.

6. Anderson, W. K., Thomas, J. L., and Whitfield, D. L., "Multigrid Acceleration of the Flux Split Euler Equations," AIAA 86-0274, 1986.

7. Anderson, W. K., Thomas, J. L., and Whitfield, D. L., "Three-Dimensional Multigrid Algorithms for the Flux-Split Euler Equations," NASA TP 2829, November 1988.

8. Bachalo, W. and Johnson, D., *An Investigation of Transonic Turbulent Boundary Layer Separation Generated on an Axisymmetric Flow Model*, AIAA 79-1479, 1979.

9. Baldwin, B. and Barth, T., "A One-Equation Turbulent Transport Model for High Reynolds Number Wall-Bounded Flows," NASA TM 102847, August 1990.

10. Baldwin, B. and Lomax, H., "Thin Layer Approximation and Algebraic Model for Separated Turbulent Flow," AIAA 78-257, 1978.

11. Baysal, O., Fouladi, K., and Lessard, V. R., "A Multigrid and Upwind Viscous Flow Solver on 3-D Overlapped and Embedded Grids," *AIAA Journal*, Vol. 29, No. 6, pp. 903-910, 1990.

12. Benek, J. A., Steger, J. L., Dougherty, F. C., and Buning, P. G., "Chimera: A Grid-Embedding Technique," AEDC-TR-85-64, 1986.

13. Brandt, A., "Multi-Level Adaptive Solutions to Boundary-Value Problems," *Mathematics of Computation*, Vol. 31, No. 138, pp. 333-390, 1977.

14. Coakley, T., "Implicit Upwind Methods for the Compressible Navier-Stokes Equations," AIAA 83-1958, July 1983.

15. Cook, P., McDonald, M., and Firmin, M., "Airfoil RAE 2822 – Pressure Distributions, and Boundary Layer Wake Measurements," AGARD AR-138, p. A6, May 1979.

16. Degani, D. and Schiff, L., "Computation of Supersonic Viscous Flows Around Pointed Bodies at Large Incidence," AIAA 83-0034,1983.

17. Dorney, D. J., Davis, R. L., and Sharma, O. P., "Unsteady Multi-Stage Analysis Using a Loosely-Coupled Blade Row Approach," AIAA 95-0179, January 1995.

18. Dring, R. P., Joslyn, H. D., Hardin, L. W., and Wagner, J. H., "Turbine Rotor-Stator Interaction," *Journal of Propulsion and Power*, Vol. 104, pp. 729-742, October 1982.

19. Favre, A., "Equations des Gaz Turbulents Compressibles," *J. Mecanique*, Vol.4, No. 3, pp. 361-390, 1965.

20. Gainer, T. and Hoffman, S., "Summary of Transformation Equations and Equations of Motion Used in Free-Flight and Wind-Tunnel Data Reduction and Analysis," NASA SP-3070, 1972.

21. Girimaji, S., "Fully-Explicit and Self-Consistent Algebraic Reynolds Stress Model," NASA CR 198243, December 1995; also ICASE Report No. 95-82, 1995 and *Theoretical and Computational Fluid Dynamics*, Vol. 8, pp. 387-402, 1996.

22. Hall, E., Topp, D., and Delaney, R., *ADPAC User's Manual*, NASA CR 195472, April 1996.

23. Janus, J., Horstman, H., and Whitfield, D., "Unsteady Flowfield Simulation of Ducted Prop-Fan Configurations," AIAA 92-0521, 1992.

24. Krist, S. L., *A Grid-Overlapping Technique Applied to a Delta Wing in a Wind Tunnel*, Masters thesis, George Washington University, 1994.

25. Krist, S. L., Thomas, J. L., Sellers, III., W. L., and Kjelgaard, S. O., "Embedded Grid Formulation Applied to a Delta Wing," AIAA 90-0429, 1990.

26. Menter, F.,"Improved Two-Equation k – ω Turbulence Models for Aerodynamic Flows," NASA TM 103975, 1992.

27. Menter, F. and Rumsey, C., "Assessment of Two-Equation Turbulence Models for Transonic Flows," AIAA 94-2343, 1994.

28. Pulliam, T., "Time Accuracy and the Use of Implicit Methods," AIAA 93-3360-CP, 1993.

29. Rai, M., "Three-Dimensional Navier-Stokes Simulations of Turbine Rotor-Stator Interaction; Parts I and II," *Journal of Propulsion and Power*, Vol. 5, No. 3, pp. 307-319, 1989.

30. Ristorcelli, R., "Diagnostic Statistics for the Assessment and Characterization of Complex Turbulent Flows," ICASE Report No. 95-67; also, NASA CR 198221, December 1995.

31. Roe, P., "Approximate Riemann Solvers, Parameter Vectors, and Difference Schemes," *Journal of Computational Physics*, Vol. 43, 1981.

32. Rumsey, C., Biedron, R., and Thomas, J., "CFL3D: Its History and Some Recent Applications," NASA TM-112861, May 1997; presented at the "Godunov's Method for Gas Dynamics" Symposium, Ann Arbor, MI, May 1-2, 1997.

33. Rumsey, C., Sanetrik, M., Biedron, R., Melson, N. D., and Parlette, E., "Efficiency and Accuracy of Time-Accurate Turbulent Navier-Stokes Computations," *Computers & Fluids*, Vol. 25, No. 2, pp. 217-236, 1996.

34. Spalart, P. and Allmaras, S., "A One-Equation Turbulence Model for Aerodynamic Flows," *La Recherche Aerospatiale*, No. 1, pp. 5-21, 1994.

35. Spalart, P. and Allmaras, S., "A One-Equation Turbulence Model for Aerodynamic Flows," AIAA 92-0439, 1992.

36. Steinbrenner, J. P., Chawner, J. R., and Fouts, C. L., "The GRIDGEN 3-D Multiple Block Grid Generation System," WRDC-TR-90-3022.

37. Thomas, J. L., Krist, S. L., and Anderson, W. K., "Navier-Stokes Computations of Vortical Flows Over Low-Aspect-Ratio Wings," *AIAA Journal*, Vol. 28, No. 2, pp. 205-212, 1990.

38. Thomas, J. and Salas, M., "Far-Field Boundary Conditions for Transonic Lifting Solutions to the Euler Equations," *AIAA Journal*, Vol. 24, No. 7, pp. 1074-1080, 1986.

39. van Leer, B., "Flux Vector Splitting for Euler Equations," *Lecture Notes in Physics*, Vol. 170, pp. 501-512, 1982.

40. van Leer, B., "Upwind-Difference Methods for Aerodynamic Problems Governed by the Euler Equations," *Lectures in Applied Mathematics* 22, pp. 327-336, 1985.

41. van Leer, B., Thomas, J., Roe, P., and Newsome, R., "A Comparison of Numerical Flux Formulas for the Euler and Navier-Stokes Equations," AIAA 87-1104-CP, June 1987.

42. Vatsa, V. and Wedan, B., "Development of a Multigrid Code for 3-D Navier-Stokes Equations and Its Application to a Grid-Refinement Study," *Computers & Fluids* 18, 391, 1990.

43. Walatka, P. P., Buning, P. G., Pierce, L., and Elson, P. A., *PLOT3D User's Manual*, NASA TM 101067, March 1990.

44. Walatka, P. P., Clucas, J., McCabe, R. K., and Plessel, T., *FAST User Guide*, RND-92013, 1992.

45. White, F. M., *Viscous Fluid Flow*. McGraw-Hill Book Company, 1974.

46. Wilcox, D., *Turbulence Modeling for CFD*, DCW Industries, Inc., La Canada, California, 1993.