

Published Books and Parts of Books

1. Sankar, L. N. and Malone, J. B., "A Numerical Solution Procedure for Steady and Unsteady Transonic Potential Flows," Chapter in Recent Advances in Numerical Methods in Fluids, Vol. III, (W.G. Habashi, Editor), Pineridge Press (1983)
2. Wu, J.C., Rizk, Y.M. and Sankar, L.N., "Problems of Time- Dependent Navier- Stokes Flow," Chapter 6 in Developments in Boundary Element Methods. Vol. 111, Applied Science Publishers (1983).
3. Wu, J.C., Guicat, U., Wang, C.M. and Sankar, L.N., "A Generalized Boundary Element Method for Unsteady Viscous Flow Problems," Chapter in Topics in Boundary Element Research, Vol. V, (C. A. Brebbia, Editor), Springer Verlag, 1989.
4. Sankar, L. N. and Malone, J. B., "Modern Computational Methods for Rotorcraft Applications," in Advances in Computational Fluid Dynamics., Vol. 4, (W.B. Habashi, Editor), Gordon-Breach Publishers, 1990.
5. Sankar, L. N., "Advanced Computational Techniques for Detailed Analysis of Flows over Fixed and Rotary Wing Geometries," in Computational Fluid Dynamics Review 1998, M. Hafez and K. Oshima, Editors. World Scientific Publishing Co., 1998.
6. Liu, Y., Sankar, L., Ahuja, K., Englar, R., Gaeta, R., "Computational Evaluation of the Steady and Pulsed Jet Effects on the Performance of a Circulation Control Wing Section," in Applications of Circulation Control Technology, Progress in Aeronautics and Astronautics, AIAA Series, 2006.

Published Journal Papers (Refereed)

1. Tassa, Y. and Sankar, L. N., "Effect of Suction on Shock- Boundary Layer Separation," AIAA Journal, Vol. 17, No. 11, 1979.
2. Sankar, L. N. and Tassa, Y., "Reynolds Number and Compressibility Effects on the Dynamic Stall of a NACA 0012 Airfoil," AIAA Journal, Vol. 19, No. 5, 1981.
3. Sankar, L.N., Malone, J.B. and Tassa, Y., "A Strongly Implicit Procedure for Steady Three-Dimensional Potential Flows," AIAA Journal. Vol. 20, No. 5, 1982.
4. Roach, R.L. and Sankar, L.N., "Strongly Implicit Procedure Applied to the Flow Field of Transonic Turbine Cascades," AIAA Journal, Vol. 20, No. 9, 1982.
5. Sankar, L. N., "A Multigrid Strongly Implicit Procedure for Two-Dimensional Transonic Potential Flow Problems," AIAA Journal, Vol. 21, No. 11, 1983.
6. Malone, J. B. and Sankar, L.N., "Numerical Simulation of Two-Dimensional Unsteady Transonic Flows Using the Full Potential Equation," AIAA Journal, Vol. 22, No. 8, 1984.
7. Lekoudis, S.G. and Sankar, L.N., "A Method for Designing Three-Dimensional Configurations with Prescribed Skin Friction," Journal of Aircraft, Vol. 21, No. 11, 1984.
8. Lekoudis, S.G., Sankar, L.N. and Malone, J.B., "The Application of Inverse Boundary Layer Methods to the Three- Dimensional Viscous Design Problem," Communications on Applied Numerical Methods, Vol. 2, pp. 57-62, 1986.
9. Sankar, L.N., Wake, B.E. and Lekoudis, S.G., "Solution of the Unsteady Euler Equations for Fixed and Rotor Wing Configurations," Journal of Aircraft, Vol. 23, No. 4, pp. 283- 289, 1986.
10. Wake, B.E., Sankar, L.N. and Lekoudis, S.G., "Computation of Rotor Blade Flows Using the Euler Equations," Journal of Aircraft, Vol.:23, No. 7, pp. 582-588, 1986.
11. Malone, J. B., Sankar, L. N. and Sotomayer, W., "Unsteady Aerodynamic Modeling of a Fighter Wing in Unsteady Transonic Flow," Journal of Aircraft, Vol. 23, No. 8, pp. 611-620, 1986.
12. Sankar, L.N., Malone, J. B. and Schuster, D., "Euler Solutions for Transonic Flow past a Fighter Wing," Journal of Aircraft, Vol. 24, NO. 1, pp. 10-16, 1987.

13. Malone, J.B., Vadyak. J. and Sankar, L.N., "Inverse Aerodynamic Design Method for Aircraft Components," Journal of Aircraft, Vol. 24, No. 1, pp. 8-9, 1987
14. Sotomayer, W., Sankar, L. N. and Malone, J. B., "A Comparison of Numerical Algorithms for Unsteady Transonic Flow," Computer Methods in Applied Mechanics and Engineering, Vol. 64, pp237-265,1987.
15. Ruo, S. Y. and Sankar, L. N., "Euler Calculations for Wing- Alone Configuration, Journal of Aircraft, Vol. 25, No. 5, May 1988, pp436-441.
16. Wu, Jiunn-Chi, Kaza, K and Sankar, L. N., "A Technique for the Prediction of Airfoil Flutter Characteristics in Separated Flow," Journal of Aircraft, Vol. 26, No. 2, February 1989, pp 168- 177.
17. Wake, B. E. and Sankar, L. N., "Solutions of the Navier- Stokes Equations for the Flow About a Rotor Blade," Journal of the American Helicopter Society, April 1989.
18. Wu, Jiunn-Chi, Huff, D. and Sankar, L.N., "Evaluation of Three Turbulence Models in Static Airloads-and Dynamic Stall Predictions," Journal of Aircraft, Vol. 27, No. 4, April 1990, pp382-384.
19. Tang, W., Komerath, N. and Sankar, L. N., "Numerical Simulation of the Growth of Instabilities in Supersonic Free Shear Layers," Journal of Propulsion and Power, Vol. 6, No. 4, July-August 1990, pp455-460.
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21. Srivastava, R., Sankar, L. N. and Reddy, T.S.R., "Application of an Efficient Hybrid Scheme for Aeroelastic Analysis of Advanced Propellers," Journal of Propulsion and Power, September-October 1991, pp 767-775.
22. Malone, J. B., Narramore, J. C. and Sankar, L. N., "Airfoil Design Method Using the Navier-Stokes Equations," J. of Aircraft, Vol. 28, No. 3, March 1991, pp216-224.
23. Hassan, A. A. and Sankar, L. N., "Separation Control Using Moving Surface Effects: A Numerical Simulation," Journal of Aircraft, Vol. 29, No. 1, January-February 1992, pp. 131-139.
24. Tuncer, I. and Sankar, L. N., "Numerical Simulation of Three-Dimensional Supersonic Free Shear Layers," AIAA Journal, Vol. 34, No. 4, April 1992., pp. 871-873.
25. Srivastava, R. and Sankar, L. N., "Efficient Hybrid Scheme for the Analysis of Counter-Rotating Propellers," Journal of Propulsion and Power, Vol. 9, No. 3, May June 1993.
26. Kwon, O. J. and Sankar, L. N., "Viscous Flow Simulation of a Fighter Aircraft," J. of Aircraft, Vol. 29, No. 5, pp 886-891, September-October 1992.
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28. Hixon, Ray and Sankar, L. N., "Application of a Generalized Minimum Residual Method to Two-Dimensional Unsteady Flows," AIAA Journal, Vol. 31, No. 10, October 1993, pp 1955-1957.
29. Berezin, C. R. and Sankar, L. N., "An Improved Navier-Stokes/Full Potential Coupled Analysis for Rotors," Mathematical and Computer Modeling, Vol. 19, No. 3/4, February 1994, pp125-133.
30. Tuncer, I. H. and Sankar, L. N., "Unsteady Aerodynamic Characteristics of a Dual-Element Airfoil," Journal of Aircraft, Vol. 31, No. 3, May-June 1994.
31. Hassan, A. A., Sankar, L. N., and Tadghighi, H., "Effects of Leading and Trailing Edge Flaps on Airfoil-Vortex Interactions," Journal of the American Helicopter Society, April 1994, Vol. 39, No.2, pp. 35-46.
32. Hixon, Duane, Tsung, Fu-Lin, and Sankar, L. N., "Comparison of Two Methods for Solving Three-Dimensional Unsteady Compressible Viscous Flows," AIAA Journal, October 1994, Vol. 32, No. 10, pp. 1978-1984.

33. Viswanathan, K and Sankar, L. N., "Toward the Direct Calculation of Noise: Fluid/Acoustic Coupled Simulation," AIAA Journal, December 1995, Vol. 33, No. 12, pp. 2271-2279.
34. Bangalore, A. and Sankar, L. N., "Numerical Analysis of Aerodynamic Performance of Rotors with Leading Edge Slats," Journal of Computational Mechanics, Vol. 17, pp. 335-342, 1996.
35. Bangalore, A., Latham, R. L. and Sankar, L. N., "Numerical Simulation of Viscous Flow over rotors using a Distributed Computing Strategy," AIAA Journal, Vol. 34, No. 10, October 1996, pp. 2189-2190.
36. Nance, D., Viswanathan, K and Sankar, L. N., "Low Dispersion Finite Volume Scheme for Aeroacoustic Applications," AIAA Journal, Vol. 35, No. 2, February 1997.
37. Bangalore, A and Sankar, L. N., "Forward Flight Analysis of Slatted rotors using Navier-Stokes methods," Journal of Aircraft, Vol. 34, No. 1, January-February 1997, pp. 80-86.
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39. Tapia, F., Sankar, L. N. and Schrage, D. P., "An Inverse Design Method for Rotor Blades," Journal of the American Helicopter Society, October 1997, pp. 321-326.
40. Kwon, O. J. and Sankar, L. N., "Numerical Simulation of the Flow about a Swept Wing with Leading Edge Ice Accretions," Computers and Fluids, Vol. 26, No. 2, pp. 183-192, 1997.
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51. Sahin M., Sankar L., Chandrasekhara M.S. and Tung C., "Dynamic Stall Alleviation using a Deformable Leading Edge Concept - A numerical Study", AIAA Journal of Aircraft, 40 (1), 2003, pp.77-85.

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53. Hariharan, N., and Sankar, L. N., "High-Order Essentially Non-oscillatory Schemes for Rotary-Wing Wake Computations," *Journal of Aircraft*, Vol. 41, No. 2, pp 258-267, March-April 2004.
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57. Min, B. Y., Lee, W., Englar, R., and Sankar, L. N., "Numerical Investigation of Circulation Control Airfoils," *Journal of Aircraft*, Vol. 46, No. 4, 2009, pp. 1403-1410.
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59. Moodie, A., Sankar, L. and Schrage, D. P., "Sizing and Performance-Prediction Method for Rotary-Wing Ejector Nozzles," *Journal of Aircraft*, Vol. 46, No. 3, pp. 951-961, May-June 2009.

Invited Conference Keynote Presentations

1. Malone, J.B., Ruo, S.Y. and Sankar, L.N., "Computation of Unsteady Transonic Flows about 2-D and 3-D AGARD Standard Configurations," *AGARD Specialists' Meeting on Transonic Unsteady Aerodynamics and Its Aeroelastic Applications*, September 1984.
2. Sankar, L.N. and Lekoudis, S.G., "Numerical Solution of Unsteady Transonic Flows," *Annual Meeting of the Society of Engineering Science*, Blacksburg, Virginia, October 1984.
3. Sankar, L. N., "Numerical Solution of Unsteady Vortical Flows," *Lockheed Corporate Symposium on Computational Aerodynamics*, Marietta, Georgia, May 22-23, 1985.
4. Lekoudis, S. G., Wake, B. E. and Sankar, L. N., "Rotor Aerodynamics and the Use of the Euler Equations," *Lockheed Corporate Symposium on Computational Aerodynamics*, Marietta, Georgia, May 22-23, 1985.
5. Sankar, L. N., Wu, Jiunn-Chi and Srivastava, R., "Application of Navier-Stokes Analysis to Stall Flutter," *Proceedings of the Lewis Structures Technology - 1988*, NASA CP 3003, Vol. 1, May 1988.
6. Sankar, L. N., Tang, W. and Komerath, N., "Numerical Simulation of Supersonic Free Shear Flows," *Proceedings of the First International Conference on Computational Engineering Science*, April 10-14, 1988, Atlanta, GA.
7. Sankar, L. N., Kwon, O. J., Bangalore, A., Phaengsook, N. and Mello, O., "Effects of Icing on the Performance of Lifting Surfaces," *Invited Lecture, Workshop on Aircraft Icing and Transition*, Ecole Polytechnique, University of Montreal, Montreal, Canada, September 20-21, 1993.

8. Nance, D. V., Sankar, L. N. and Viswanathan, K, "An Improved Family of Low Dispersion Finite Volume Schemes for Aeroacoustic Applications," Proceedings of the Second Asian CFD Conference, Dec. 14-18, 1996.
9. Sankar, L. N., Berkman, M., Russell, J. and Hariharan, N., "A First principles based Method for the Prediction of Loading over Fixed and Rotary Wing Geometries," National CFD Symposium, Chuo University, Japan, December 19-21, 1996.
10. Russell, J. W., Sankar, L. N. and Tung, C., "Modifications of the Tip Vortex Structure from a Hovering Rotor using Spoilers," IUTAM Symposium on Dynamics of Slender Vortices, August 31-September 3, 1997, Aachen, Germany.
11. L. Sankar, V. Iyengar, and M. Zaki, Keynote Address, "A First-Principles Based Methodology for Design of Axial Compressor Configurations," ANKARA INTERNATIONAL AEROSPACE CONFERENCE , 10-12 September, 2007 - Middle Eastern Technical University, Ankara, Turkey.
12. Min, Byung Young, Sankar, L. N., and Yu, Y. H., "Combined Lagrangean -Eulerian Approaches for Improved prediction of Blade Vortex Interaction Phenomena," Proceedings of the 2nd International Forum on Rotorcraft Multidisciplinary Technology, Seoul, Korea, November 2009.
13. Collins, K., and Sankar, L. N., "Application of Low and High fidelity tools to Helicopter Rotor Blade Optimization," International Rotorcraft Workshop, Konkuk University, Seoul, Korea, November 2009.

Conference Presentations with Proceedings (Non-Refereed)

1. Wu, J.C., Spring, A.H. and Sankar, L.N., "A Flow Field Segmentation Method for the Numerical Solution of Viscous Flow Problems," Fourth International Conference on Numerical Methods in Fluid Dynamics, Springer Verlag, 1975.
2. Wu, J.C. and Sankar, L.N., "Explicit Finite Element Solution of the Viscous Flow Problem," International Conference on Finite Element Methods in Engineering, Adelaide, Australia, 1976.
3. Wu, J.C., Sampath, S. and Sankar, L.N., "A Numerical Study of Unsteady Viscous Flow Around an Airfoil," AGARD Fluid Dynamics Panel Symposium on Unsteady Aerodynamics, Ottawa, Canada, 1977.
4. Sankar, L. N. and Tassa, Y., "An Algorithm for Unsteady Transonic Flow past Airfoils," Seventh International Conference on Numerical Methods in Fluid Dynamics, Springer Verlag, 1980.
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12. Wu, Jiunn-chi, Kaza, K. R. V., and Sankar, L.N., "A Technique for the Prediction of Airfoil Flutter Characteristics in Separated Flow," AIAA 87-0910-CP, Proceedings of the AIAA Dynamics Specialists Meeting, Monterey, California, April 1987.
13. Tang, W. and Sankar, L.N., "Strong Blade-Vortex Interactions Including Collision," Proceedings of the Forum on Unsteady Flows, ASME Spring Meeting, Cincinnati, June 1987.
14. Ekaterinaris, J.A., Sankar, L. N. and Giddens, D.P., "Low Mach Number Compressible Flow Solutions in Constricted Ducts," Proceedings of the AIAA 8th Computational Fluid Dynamics Conference, June 1987.
15. Wake, B. E., Sankar, L. N., Wu, Jiunn-Chi and Ruo, S. Y., "An Efficient Procedure for the Numerical Solution of Three- Dimensional Viscous Flows," AIAA Paper 87-1159, Proceedings of the AIAA 8th Computational Fluid Dynamics Conference, June 1987.
16. Ram, D. S., Charles, B. and Sankar, L. N., "Emerging Role of First Principle Based Computational Aerodynamics for Rotorcraft Applications," Proceedings of the Second International Conference on Rotorcraft Basic- Research, University of Maryland, Maryland, February 1988.
17. Prichard, D. and Sankar, L. N., "Improvements to Transonic Flow Field Calculations," Proceedings of the 44th ANS Annual Forum, Washington, D. C., June 1988.
18. Narramore, J., Sankar, L. N. and Vermeland, R., "An Evaluation of a Navier-Stokes Code for Calculations of Retreating Blade Stall on a Helicopter Rotor," Proceedings of the 44th Annual Forum of the American Helicopter Society, Washington, D. C., June 1988.
19. Tang, W. Sankar, L. N. and Komerath, N. K, "Navier-Stokes Simulation of Supersonic Free Shear Layer Flows," Proceedings of the Workshop on the Physics of Compressible Turbulent Mixing, Princeton University, Princeton, New Jersey, October 24-27,1988.
20. Hodges, D., Kwon, O. J., and Sankar, L. N., "Stability of Hingeless Rotors in Hover Using Three-Dimensional Unsteady Aerodynamics," Proceedings of the 45th Annual Forum of the American Helicopter Society, Boston, Massachusetts, May 1989.
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22. Kwon, O. J., Hodges, D., Peters, D. and Sankar, L. N., "Application of a Panel Method to Aeroelastic Stability of Rotors in Hover," Proceedings of the International Symposium on Boundary Element Methods, East Hartford, Connecticut, October 2-4, 1989.
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28. Narramore, J. C. and Sankar, L. N., "Numerical Simulation of Multi-Zone Two Dimensional Transonic Flows Using the Full Navier-Stokes Equations," Proceedings of the Third International Technical Specialists Meeting on Rotorcraft Basic Research, Atlanta, GA, March 25-27, 1991.
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30. Potapczuk, M. G., Bragg, M. B., Kwon, O. J., and Sankar, L. N., "Simulation of Iced Wing Aerodynamics," Proceedings of the AGARD Conference on Effects of Adverse Weather on Aerodynamics, AGARD CP-496, April 29 - May 1, 1991.
31. Tuncer, I. and Sankar, L. N., "Unsteady Aerodynamic Characteristics of Dual-Element Airfoil Configuration," AIAA Paper 92-2508, Proceedings of the AIAA 33rd Structures, Structural Dynamics and Materials Conference, Dallas, TX, April 13-15, 1992.
32. Bharadvaj, B. and Sankar, L. N., "Navier-Stokes Analysis of Airfoils with Spoilers," AIAA Paper 92-2507, Proceedings of the AIAA 33rd Structures, Structural Dynamics and Materials Conference, Dallas, TX, April 13-15, 1992.
33. Sankar, L. N., Reddy, N. N., and Hariharan, N., "A Comparative Study of Numerical Schemes for Aeroacoustic Applications," Proceedings of the ASME Forum on Computational Aero- and Hydro-Acoustics, Washington, D. C., June 1993.
34. Latham, R. L., Gramoll, K. and Sankar, L. N., "Interactive Aerodynamics Analysis and Design Programs for Use in the Undergraduate Curriculum," Proceedings of the 1993 ASEE Annual Conference, Urbana, Champaign, IL, June 1993.
35. Mello, O. A. F., Prasad, J. V. R., Sankar and Tseng, W., "Analysis of Helicopter/Ship Aerodynamics Interactions," Proceedings of the AHS Workshop on Aeromechanics, San Francisco, January 1994.
36. Park, W. G. and Sankar, L. N., "Dynamic Stall Simulation of a NACA 0012 Airfoil using the Primitive Variable Formulation," Proceedings of the Symposium on Advances in Computational Fluid Dynamics, ASME Fluids Engineering Meeting, June 19-23, 1994.
37. Zhang, H., Mello, O. A. F., Prasad, J. V. R., Sankar, L. N. and Funk, J. D., 'A Simulation Model of Ship Ground Effect for Rotorcraft/Ship Interaction Study,' Proceedings of the 51st Annual forum of the American helicopter Society, May 9-11, 1995.
38. Tapia, F., Sankar, L. N. and Schrage, D. P., 'An Inverse Aerodynamic Design method for Rotor Blades in Forward Flight,' Proceedings of the 51st Annual forum of the American Helicopter Society, May 9-11, 1995.
39. Berezin, C. and Sankar, L. N., 'Further Enhancements to a 3-D Unsteady Navier-Stokes/Full Potential Rotor Solver,' AGARD Symposium on Aerodynamics and Aeroacoustics of Rotorcraft, October 10-13, 1994.
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42. Weed, R. and Sankar, L. N., 'Computational Strategies for Three-Dimensional Unsteady Flow Simulations on Distributed Computing Systems,' Proceedings of the NASA Computational Aerosciences Workshop, March 7-9,1995.
43. Srinivasan, G. R. and Sankar, L. N., 'Status of Euler and Navier-Stokes CFD Methods for Helicopter Applications, Proceedings of the 2nd International Aeromechanics Specialists Conference, Bridgeport, CT, October 11-13, 1995.
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45. Tapia, F., Schrage, D. and Sankar, L. N., "Inclusion of Viscous Effects to an Aerodynamic Design Method for Rotor Blades," Proceedings of the Proceedings of the AHS Forum, April 29-May 1, 1997, pp. 406-421.
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