JOURNAL ARTICLES

CLEAVER, D., WANG, Z. and GURSUL, I., "Bifurcating flows of plunging airfoils at high Strouhal numbers", *Journal of Fluid Mechanics*, in print.

WANG, Z. and GURSUL, I., "Unsteady characteristics of inlet vortices", *Experiments in Fluids*, in print.

CALDERON, D.E., WANG, Z. and GURSUL, I., "Three-Dimensional Measurements of Vortex Breakdown", *Experiments in Fluids*, Volume 53, Issue 1 (2012), Page 293-299.

ROJRATSIRIKUL, P, GENC, M.S., WANG, Z., and GURSUL, I., "Flow-Induced Vibrations of Low Aspect Ratio Rectangular Membrane Wings", *Journal of Fluids and Structures*, vol. 27, 2011, pp. 1296–1309.

GRESHAM, N.T., WANG, Z., and GURSUL, I., "Effect of Slenderness Ratio on Free-to-Roll Wing Aerodynamics", *Journal of Aircraft*, vol. 48, Issue: 3, pp. 1112-1116, MAY-JUN 2011.

CLEAVER, D.J., WANG, Z., GURSUL, I. and VISBAL, M.R., "Lift Enhancement by means of Small Amplitude Airfoil Oscillations at Low Reynolds Numbers", *AIAA Journal*, vol. 49, No. 9, September 2011, pp. 2018-2033.

ROJRATSIRIKUL, P., WANG, Z., and GURSUL, I., "Effect of pre-strain and excess length on unsteady fluid-structure interactions of membrane airfoils", *Journal of Fluids and Structures*, vol. 26, 2010, pp.359–376, Published: APR 2010.

MARGARIS, P. and GURSUL. I., "Vortex Topology of Wing Tip Blowing", *Aerospace Science and Technology*, volume: 14, issue: 3, April-May 2010, pp. 143-160.

JIANG, P., WANG, Z., and GURSUL, I., "Effects of Unsteady Trailing-Edge Blowing on Delta Wing Aerodynamics", *Journal of Aircraft*, vol. 47, issue: 2, March-April 2010, pp. 591-602.

GRESHAM, N.T., WANG, Z., and GURSUL, I., "Low Reynolds Number Aerodynamics of Free-to-Roll Low Aspect Ratio Wings", *Experiments in Fluids*, in print.

GRESHAM, N.T., WANG, Z., and GURSUL, I., "Vortex Dynamics of Free-to-Roll Slender and Nonslender Delta Wings", *Journal of Aircraft*, vol. 47, no. 1, January-February 2010, pp. 292-302.

GORDNIER, R.E., VISBAL, M.R., GURSUL, I., WANG, Z., "Computational and Experimental Investigation of a Nonslender Delta Wing", *AIAA Journal*, vol. 47, no. 8, August 2009, pp. 1811-1825.

ROJRATSIRIKUL, P., WANG, Z., and GURSUL, I., "Unsteady Fluid-Structure Interactions of Membrane Airfoils at Low Reynolds Numbers", *Experiments in Fluids*, vol. 46, 2009, pp. 859-872.

GRESHAM, N.T., WANG, Z., and GURSUL, I., "Self-Induced Roll Oscillations of Nonslender Wings", *AIAA Journal*, Aerospace Letter, Vol. 47, Issue: 3, March 2009, Pages: 481-483.

WILLIAMS, N., WANG, Z., and GURSUL, I., "Active Flow Control on a Nonslender Delta Wing", *Journal of Aircraft*, vol. 45, no. 6, 2008, pp. 2100-2110.

MARLES, D. and GURSUL, I., "Effect of an Axial Jet on Vortex Merging", *Physics* of *Fluids*, vol. 20, issue 4, DOI: 10.1063/1.2907210, 2008, Article 047101.

VARDAKI, E., WANG, Z., and GURSUL, I., "Flow Reattachment and Vortex Reformation on Oscillating Low Aspect Ratio Wings", *AIAA Journal*, Vol. 46, No. 6, June 2008, pp. 1453-1462.

MARGARIS, P., MARLES, D., and GURSUL, I., "Experiments on Jet/Vortex Interaction", *Experiments in Fluids*, vol. 44, no. 2, February 2008, pp. 261-278.

GURSUL, I., WANG, Z., and VARDAKI, E., "Review of Flow Control Mechanisms of Leading-Edge Vortices", *Progress in Aerospace Sciences*, vol. 43, 2007, pp. 246-270.

TAYLOR, G., WANG, Z., VARDAKI, E., and GURSUL, I., "Lift Enhancement over Flexible Nonslender Delta Wings", *AIAA Journal*, vol. 45, no. 12, December 2007, pp. 2979-2993.

WANG, Z., JIANG, P. and GURSUL, I., "Effect of Thrust Vectoring Jets on Delta Wing Aerodynamics", *Journal of Aircraft*, vol. 44, no. 6, November-December 2007, pp. 1877-1888.

HEATHCOTE, S., WANG, Z. and GURSUL, I., "Effect of Spanwise Flexibility on Flapping Wing Propulsion", *Journal of Fluids and Structures*, vol. 24, 2008, pp. 183-199.

HEATHCOTE, S. and GURSUL, I., "Jet Switching Phenomenon for a Periodically Plunging Airfoil", *Physics of Fluids*, vol 19, no. 2, Art. No. 027104 FEB, 2007.

HEATHCOTE, S. and GURSUL, I., "Flexible Flapping Airfoil Propulsion at Low Reynolds Numbers", *AIAA Journal*, vol. 45, no. 5, May 2007, pp. 1066-1079.

GURSUL, I., VARDAKI, E., MARGARIS, P., and WANG, Z., "Control of Wing Vortices", *Notes on Numerical Fluid Mechanics and Multidisciplinary Design: Conference on Active Flow Control 2006*, Springer Verlag, New York, 2007.

MARGARIS, P., GURSUL, I., "Wing Tip Vortex Control Using Synthetic Jets", *The Aeronautical Journal*, Vol. 110, No. 1112, 2006, pp 673-683.

WHITEHEAD, J. and GURSUL, I., "Interaction of Synthetic Jet Propulsion with Airfoil Aerodynamics at Low Reynolds Numbers", *AIAA Journal*, vol. 44, no. 8, August 2006, pp. 1753-1766.

GURSUL, I., GORDNIER, R., and VISBAL, M., "Unsteady Aerodynamics of Nonslender Delta Wings", *Progress in Aerospace Sciences*, vol. 41, no. 7, 2005, pp. 515-557.

TAYLOR, G.S. and GURSUL, I., "Support Interference for a Maneuvering Delta Wing", *Journal of Aircraft*, vol. 42, no. 6, November-December 2005, pp. 1504-1515.

GURSUL, I., ALLAN, M.R. and BADCOCK, K.J., "Opportunities for the Integrated Use of Measurements and Computations for the Understanding of Delta Wing Aerodynamics", *Aerospace Science and Technology*, vol. 9, 2005, pp. 181-189.

GURSUL, I., *Survey Article*: "Review of Unsteady Vortex Flows over Slender Delta Wings", *Journal of Aircraft*, vol. 42, no. 2, March-April 2005, pp. 299-319.

GURSUL, I., "Vortex Flows on UAVs: Issues and Challenges", *The Aeronautical Journal*, vol. 108, No. 1090, December 2004, pp. 597-610.

HEATHCOTE, S., MARTIN, D., and GURSUL, I., "Flexible Flapping Airfoil Propulsion at Zero Freestream Velocity", *AIAA Journal*, vol. 42, No. 11, November 2004, pp. 2196-2204.

TAYLOR, G. and GURSUL, I., "Buffeting Flows over a Low Sweep Delta Wing", *AIAA Journal*, vol. 42, no. 9, September 2004, pp. 1737-1745.

GURSUL, I., *Invited review article*: "Recent Developments in Delta Wing Aerodynamics", *The Aeronautical Journal*, September 2004, pp. 437-452.

LAMBERT, C. and GURSUL, I., 2004, "Characteristics of Fin Buffeting over Delta Wings", *Journal of Fluids and Structures*, vol. 19, pp. 307-319.

TAYLOR, G., GURSUL, I., and GREENWELL, D.I., 2003, "An Investigation of Support Interference in High Angle of Attack Testing", *Journal of Aircraft*, vol. 40, no. 1, pp. 143-152.

PHILLIPS, S., LAMBERT, C., and GURSUL, I., 2003, "Effect of a Trailing-Edge Jet on Fin Buffeting", *Journal of Aircraft*, vol. 40, no. 3, pp. 590-599.

GURSUL, I. and XIE, W., 2001, "Interaction of Vortex Breakdown with an Oscillating Fin", *AIAA Journal*, vol. 39, no. 3, pp. 438-446.

GURSUL, I., 2000, "Proposed Mechanism for Time Lag of Vortex Breakdown Location in Unsteady Flows", *Journal of Aircraft*, vol. 37, no. 4, pp. 733-736.

LAMBERT, C. and GURSUL, I., 2000, "Insensitivity of Unsteady Vortex Interactions To Reynolds Number", *AIAA Journal*, vol. 38, no. 5, pp. 937-939.

GURSUL, I. and XIE, W., 2000, "Origin of Vortex Wandering over Delta Wings", *Journal of Aircraft*, vol. 37, no.2, pp. 348-350.

MENKE, M., YANG, H., and GURSUL, I., 1999, "Experiments on the Unsteady Nature of Vortex Breakdown over Delta Wings", *Experiments in Fluids*, vol. 27, no. 3, pp. 262-272.

MENKE, M. and GURSUL, I., 1999, "Nonlinear Response of Vortex Breakdown Over a Pitching Delta Wing", *Journal of Aircraft*, vol. 36, no. 3, pp. 496-500.

GURSUL, I. and XIE, W., 1999, "Buffeting Flows over Delta Wings", *AIAA Journal*, vol. 37, no. 1, pp. 58-65.

BADRAN, B., McCORMICK, S., and GURSUL, I., 1998, "Control of Leading-Edge Vortices with Suction", *Journal of Aircraft*, vol. 35, no. 1, pp. 163-165.

MENKE, M. and GURSUL, I., 1997, "Unsteady Nature of Leading Edge Vortices", *Physics of Fluids*, vol. 9, no. 10, pp. 2960-2966.

DENG, Q. and GURSUL, I., 1997, "Vortex Breakdown over a Delta Wing with Oscillating Leading Edge Flaps", *Experiments in Fluids*, vol. 23, pp. 347-352.

YANG, H. and GURSUL, I., 1997, "Vortex Breakdown over Unsteady Delta Wings and its Control", *AIAA Journal*, vol. 35, no. 3, pp. 571-574.

GURSUL, I., 1997, "Comment on "Counter-Rotating Structures over a Delta Wing"", *AIAA Journal*, vol. 35, no. 4, pp. 758-759.

DENG, Q. and GURSUL, I., 1996, "Effect of Leading Edge Flaps on Vortices and Vortex Breakdown", *Journal of Aircraft*, vol. 33, no. 6, pp. 1079-1086.

McCORMICK, S. and GURSUL, I., 1996, "Effect of Shear Layer Control on Leading Edge Vortices", *Journal of Aircraft*, vol. 33, no. 6, pp. 1087-1093.

GURSUL, I., 1996, "Effect of Nonaxisymmetric Forcing on a Swirling Jet with Vortex Breakdown", *Journal of Fluids Engineering*, vol. 118, pp. 316-321.

GURSUL, I., LIN, H. and HO, C-M., 1996, "Parametric Effects on Lift Force of an Airfoil in Unsteady Free Stream", *AIAA Journal*, vol. 34, no. 5, pp. 1085-1087.

GURSUL, I., SRINIVAS, S. and BATTA, G. 1995, "Active Control of Vortex Breakdown over a Delta Wing", *AIAA Journal*, vol. 33, no. 9, pp. 1743-1745.

GURSUL, I. and YANG, H., 1995, "Vortex Breakdown over a Pitching Delta Wing", *Journal of Fluids and Structures*, vol. 9, pp. 571-583.

GURSUL, I., 1995, "Criteria for Vortex Breakdown Location over Delta Wings", *The Aeronautical Journal*, May 1995, pp. 194-196.

GURSUL, I. and YANG, H., 1995, "On Fluctuations of Vortex Breakdown Location", *Physics of Fluids*, vol. 7, no. 1, January, pp. 229-231.

GURSUL, I., 1994, "Unsteady Flow Phenomena over Delta Wings at High Angle-of-Attack", *AIAA Journal*, vol. 32, no. 2, February 1994, pp. 225-231.

GURSUL, I. and HO, C.M., 1994, "Vortex Breakdown over Delta Wings in Unsteady Free Stream", *AIAA Journal*, vol. 32, no. 2, February 1994, pp. 433-436.

GURSUL, I., LIN, H. and HO, C.M. 1994, "Effects of Time Scales on Lift of Airfoils in Unsteady Stream", *AIAA Journal*, vol. 32, no. 4, April 1994, pp. 797-801.

GURSUL, I. and HO, C.M., 1992, "High Aerodynamic Loads on an Airfoil Submerged in an Unsteady Stream", *AIAA Journal*, vol. 30, April 1992, pp. 1117-1119.

GURSUL, I., LIN, H. and HO, C.M., 1991, "An Airfoil with $C_L > 10$ ", *Physics of Fluids A*, Gallery of Fluid Motion, vol. 3, no. 9, pp. 2030.

GURSUL, I. and ROCKWELL, D., 1991, "Effect of Concentration of Vortices on Flow Visualization", *Experiments in Fluids*, vol. 10, no. 5, pp. 294-296.

GURSUL, I., LUSSEYRAN, D. and ROCKWELL, D., 1990, "On Interpretation of Flow Visualization of Unsteady Shear Flows", *Experiments in Fluids*, vol. 9, pp. 257-266.

GURSUL, I. and ROCKWELL, D., 1990, "Vortex Street Impinging Upon a Leadingedge", *Journal of Fluid Mechanics*, vol. 211, pp. 211-242.

OZGUR, C., GURSUL, I. and AYDER, E., 1987, "On the Prediction of Downsurge in Pump Systems", *Bulletin of the Technical University of Istanbul*, vol. 40, pp. 231-253.