

Publications (Last update: February 1, 2015)

Books

1. T.E. Tezduyar, *Lecture Series on Finite Elements in Fluids*, University of Tokyo, Tokyo (2001).
2. Y. Bazilevs, K. Takizawa and T.E. Tezduyar, *Computational Fluid-Structure Interaction: Methods and Applications*, Wiley (2013).

Book Translations

1. T. Yabe and T. Yamaji, *The Magnesium Civilization: An Alternative New Source of Energy to Oil*, Translation from Japanese: T.S. Tezduyar and T.E. Tezduyar, Pan Stanford Publishing (2011).

Edited Volumes

1. T.E. Tezduyar and T.J.R. Hughes, *Numerical Methods for Compressible Flows -- Finite Difference, Element and Volume Techniques*, AMD-Vol. 78, ASME, New York (1986).
2. T.E. Tezduyar and T.J.R. Hughes, *Recent Developments in Computational Fluid Dynamics*, AMD-Vol. 95, ASME, New York (1988).
3. T.E. Tezduyar and T.J.R. Hughes, *Recent Developments in Large-Scale Computational Fluid Dynamics, Computer Methods in Applied Mechanics and Engineering*, Vol. 87, Nos. 2-3, North-Holland, Amsterdam (1991).
4. T.E. Tezduyar, *Special issue on Computational Fluid Dynamics, Computational Mechanics*, Vol. 11, Nos. 5-6, Springer-Verlag, Berlin (1993).
5. T.E. Tezduyar, M. Kawahara and T.J.R. Hughes, *Finite Element Methods in Large-Scale Computational Fluid Dynamics, Computer Methods in Applied Mechanics and Engineering*, Vol. 112, Nos. 1-4, North-Holland, Amsterdam (1994).
6. T.E. Tezduyar, *Parallel Finite Element Computations, Computer Methods in Applied Mechanics and Engineering*, Vol. 119, Nos. 1-2, North-Holland, Amsterdam (1994).
7. I. Babuska, J.H. Flaherty, W.D. Henshaw, J.E. Hopcroft, J.E. Oliger and T. Tezduyar, *Modeling, Mesh Generation, and Adaptive Numerical Methods for Partial Differential Equations, The IMA Volumes in Mathematics and its Applications*, Vol. 75, Springer-Verlag (1995).
8. T.E. Tezduyar, M. Kawahara and T.J.R. Hughes, *Finite Element Methods in Large-Scale Computational Fluid Dynamics, International Journal for Numerical Methods in Fluids*, Vol. 21, No. 10, John Wiley & Sons (1995).
9. T.E. Tezduyar and T.J.R. Hughes, *Finite Element Methods in Large-Scale Computational Fluid Dynamics, International Journal for Numerical Methods in Fluids*, Vol. 24, No. 12, John Wiley & Sons (1997).
10. T.E. Tezduyar and T.J.R. Hughes, *Parallel Computing Methods in Applied Fluid Mechanics, Parallel Computing*, Vol. 23, North-Holland, Amsterdam (1997).
11. T.E. Tezduyar and G. Yagawa, *Advances in Parallel Computing Methods for Fluid Mechanics, Computational Mechanics*, Vol. 23, No. 2, Springer-Verlag, Berlin (1999).

12. T.E. Tezduyar, *Parallel Computational Methods for Flow Simulation and Modeling, Computer Methods in Applied Mechanics and Engineering*, Vol. 174, Nos. 3-4, North-Holland, Amsterdam (1999).
13. T.E. Tezduyar and T.J.R. Hughes, *Finite Element Methods in Large-Scale Computational Fluid Dynamics, Computer Methods in Applied Mechanics and Engineering*, Vol. 190, Nos. 3-4, North-Holland, Amsterdam (2000).
14. T.E. Tezduyar and T.J.R. Hughes, *Methods for Flow Simulation and Modeling, Computer Methods in Applied Mechanics and Engineering*, Vol. 191, Nos. 6-7, North-Holland, Amsterdam (2001).
15. T.E. Tezduyar and T.J.R. Hughes, *Flow Simulation and Modeling, Special Section in Journal of Applied Mechanics*, Vol. 70, January 2003, ASME, New York (2003).
16. T.E. Tezduyar and T.J.R. Hughes, *Flow Simulation and Modeling, Computer Methods in Applied Mechanics and Engineering*, Vol. 193, Nos. 21-22, North-Holland, Amsterdam (2004).
17. L.P. Franca, T.E. Tezduyar and A. Masud, *Finite Element Methods: 1970's and Beyond*, CIMNE, Barcelona (2004).
18. T.E. Tezduyar and M. Hafez, *Advances and Challenges in Flow Simulation and Modeling, International Journal for Numerical Methods in Fluids*, Vol. 47, Nos. 6-7, John Wiley & Sons (2005).
19. A. Masud and T.E. Tezduyar, *Advances in Computational Mechanics, Computer Methods in Applied Mechanics and Engineering*, Vol. 195, Nos. 13-16, Elsevier (2006).
20. T.E. Tezduyar, Y. Matsumoto, T.J.R. Hughes and M. Hafez, *Challenges and Advances in Flow Simulation and Modeling, Computers & Fluids*, Vol. 36, No. 1, Elsevier (2007).
21. A. Masud and T.E. Tezduyar, *Stabilized, Multiscale and Multiphysics Methods, Computational Mechanics*, Springer, Vol. 38, Nos. 4-5, Springer (2006).
22. T.E. Tezduyar and A. Masud, *Stabilized, Multiscale and Multiphysics Methods, International Journal for Numerical Methods in Fluids*, Vol. 54, Nos. 6-8, John Wiley & Sons (2007).
23. T.E. Tezduyar and Y. Bazilevs, *Fluid-Structure Interaction, Computational Mechanics*, Vol. 43, No. 1, Springer (2008).
24. A. Masud, T.E. Tezduyar and Y. Matsumoto, *Stabilized, Multiscale and Multiphysics Methods in Fluid Mechanics, Journal of Applied Mechanics*, Vol. 76, March 2009, ASME, New York (2009).
25. A. Masud, Y. Bazilevs and T.E. Tezduyar, *Advances in Computational Fluid Mechanics and Fluid-Structure Interactions, Computational Mechanics*, Vol. 46, No. 1, Springer (2010).
26. K. Kashiyama and T.E. Tezduyar, *Special Issue: Fifteenth International Conference on Finite Elements in Flow Problems, International Journal for Numerical Methods in Fluids*, Vol. 64, Nos. 10-12, John Wiley & Sons (2010).
27. T.E. Tezduyar and Y. Bazilevs, *Special Issue: Advances in Computational Fluid Mechanics and Fluid-Structure Interactions, International Journal for Numerical Methods in Fluids*, Vol. 65, Nos. 1-3, John Wiley & Sons (2011).
28. Y. Bazilevs, K. Takizawa and T.E. Tezduyar, *Computational Fluid Mechanics and Fluid-Structure Interaction, Computational Mechanics*, Vol. 48, No. 3, Springer (2011).

29. Y. Bazilevs, K. Takizawa and T.E. Tezduyar, *Computational Fluid Mechanics and Fluid-Structure Interaction*, Special Section in *Journal of Applied Mechanics*, Vol. 79, January 2012, ASME, New York (2012).
30. K. Takizawa, Y. Bazilevs and T.E. Tezduyar, *Computational Fluid Mechanics and Fluid-Structure Interaction, Computational Mechanics*, Vol. 50, No. 6, Springer (2012).
31. Y. Bazilevs, K. Takizawa and T.E. Tezduyar, *Computational Fluid-Structure Interaction, Mathematical Models and Methods in Applied Sciences*, Vol. 23, No. 2, World Scientific (2013).
32. Y. Bazilevs, K. Takizawa and T.E. Tezduyar, *Biomedical Fluid Mechanics and Fluid-Structure Interaction, Computational Mechanics*, Vol. 54, No. 4, Springer (2014).

ISI-Indexed Journal Articles (Researcher ID: [F-6134-2012](#))

1. T.J.R. Hughes and T.E. Tezduyar, "Finite Elements Based Upon Mindlin Plate Theory with Particular Reference to the Four-node Bilinear Isoparametric Element", *Journal of Applied Mechanics*, **48** (1981) 587-596; also in *New Concepts in Finite Element Analysis*, AMD-Vol. 44, ASME, New York (1981) 81-106.
2. T.J.R. Hughes and T.E. Tezduyar, "Stability and Accuracy Analysis of Some Fully-discrete Algorithms for the One-dimensional Second-order Wave Equation", *Computers & Structures*, **19** (1984) 665-668.
3. T.J.R. Hughes and T.E. Tezduyar, "Finite Element Methods for First-order Hyperbolic Systems with Particular Emphasis on the Compressible Euler Equations", *Computer Methods in Applied Mechanics and Engineering*, **45** (1984) 217-284.
4. T.J.R. Hughes and T.E. Tezduyar, "Analysis of Some Fully-discrete Algorithms for the One-dimensional Heat Equation", *International Journal of Numerical Methods in Engineering*, **21** (1985) 163-168.
5. L.T. Wheeler, T.E. Tezduyar and B.H. Eldiwany, "Profiles of Minimum Stress Concentration for Antiplane Deformation of an Elastic Solid", *Journal of Elasticity*, **15** (1985) 271-282.
6. T.E. Tezduyar and D.K. Ganjoo, "Petrov-Galerkin Formulations with Weighting Functions Dependent Upon Spatial and Temporal Discretization: Applications to Transient Convection-Diffusion Problems", *Computer Methods in Applied Mechanics and Engineering*, **59** (1986) 49-71.
7. T.E. Tezduyar, L.T. Wheeler and L. Graux, "Finite Deformation of a Circular Elastic Membrane Containing a Concentric Rigid Inclusion", *International Journal of Nonlinear Mechanics*, **22** (1987) 61-72.
8. T.E. Tezduyar and Y.J. Park, "Discontinuity Capturing Finite Element Formulations for Nonlinear Convection-Diffusion-Reaction Equations", *Computer Methods in Applied Mechanics and Engineering*, **59** (1986) 307-325.
9. T.E. Tezduyar, Y.J. Park and H.A. Deans, "Finite Element Procedures for Time-dependent Convection-Diffusion-Reaction Systems", *International Journal for Numerical Methods in Fluids*, **7** (1987) 1013-1033; also Chapter 2 in *Finite Elements in Fluids*, Vol. 7, John Wiley & Sons (1988) 25-45.
10. D.K. Ganjoo and T.E. Tezduyar, "Petrov-Galerkin Formulations for Electrochemical Processes", *Computer Methods in Applied Mechanics and Engineering*, **65** (1987) 61-83.

11. T.E. Tezduyar, R. Glowinski and J. Liou, "Petrov-Galerkin Methods on Multiply-connected Domains for the Vorticity-Stream Function Formulation of the Incompressible Navier-Stokes Equations", *International Journal for Numerical Methods in Fluids*, **8** (1988) 1269-1290.
12. D.K. Ganjoo, T.E. Tezduyar and W.D. Goodrich, "A New Formulation for Numerical Simulation of Electrophoresis Separation Processes", *Computer Methods in Applied Mechanics and Engineering*, **75** (1989) 515-530.
13. T.E. Tezduyar and J. Liou, "Grouped Element-by-Element Iteration Schemes for Incompressible Flow Computations", *Computer Physics Communications*, **53** (1989) 441-453.
14. T.E. Tezduyar, "Finite Element Formulation for the Vorticity-Stream Function Form of the Incompressible Euler Equations on Multiply-connected Domains", *Computer Methods in Applied Mechanics and Engineering*, **73** (1989) 331-339.
15. T.E. Tezduyar, J. Liou, D.K. Ganjoo and M. Behr, "Solution Techniques for the Vorticity-Stream Function Formulation of Two-dimensional Incompressible Flows", *International Journal for Numerical Methods in Fluids*, **11** (1990) 515-539.
16. T.E. Tezduyar and J. Liou, "Adaptive Implicit-Explicit Finite Element Algorithms for Fluid Mechanics Problems", *Computer Methods in Applied Mechanics and Engineering*, **78** (1990) 165-179; also in *Recent Developments in Computational Fluid Dynamics*, AMD-Vol. 95, ASME, New York (1988) 163-184.
17. T.E. Tezduyar, J. Liou and D.K. Ganjoo, "Incompressible Flow Computations Based on the Vorticity-Stream Function and Velocity-Pressure Formulations", *Computers & Structures*, **35** (1990) 445-472.
18. T.E. Tezduyar and J. Liou, "Computation of Spatially Periodic Flows Based on the Vorticity-Stream Function Formulation", *Computer Methods in Applied Mechanics and Engineering*, **83** (1990) 121-142.
19. Y.J. Park, H.A. Deans and T.E. Tezduyar, "Finite Element Formulation for Transport Equations in a Mixed Coordinate System: an Application to Determine Temperature Effects on the Single-well Chemical Tracer Test", *International Journal for Numerical Methods in Fluids*, **11** (1990) 769-790.
20. J. Liou and T.E. Tezduyar, "Iterative Adaptive Implicit-Explicit Methods for Flow Problems", *International Journal for Numerical Methods in Fluids*, **11** (1990) 867-880.
21. T.E. Tezduyar and J. Liou, "On the Downstream Boundary Conditions for the Vorticity-Stream Function Formulation of Two-dimensional Incompressible Flows", *Computer Methods in Applied Mechanics and Engineering*, **85** (1991) 207-217.
22. J. Liou, H.A. Deans and T.E. Tezduyar, "Finite Element Simulation of Deep-well Wet Oxidation Reactor", *Journal of Engineering Mechanics*, **116** (1990) 1780-1797.
23. T.E. Tezduyar and R. Shih, "Numerical Experiments on Downstream Boundary of Flow Past Cylinder", *Journal of Engineering Mechanics*, **117** (1991) 854-871.
24. T.E. Tezduyar, S. Mittal and R. Shih, "Time-accurate Incompressible Flow Computations with Quadrilateral Velocity-Pressure Elements", *Computer Methods in Applied Mechanics and Engineering*, **87** (1991) 363-384.
25. M. Behr, J. Liou, R. Shih and T.E. Tezduyar, "Vorticity-Stream Function Formulation of Unsteady Incompressible Flow Past a Cylinder: Sensitivity of the Computed Flow Field to

- the Location of the Outflow Boundary", *International Journal for Numerical Methods in Fluids*, **12** (1991) 323-342.
26. S. Mittal, H.A. Deans and T.E. Tezduyar, "Numerical Simulation of Deep-well Wet Oxidation Reactor Using Steam", *Journal of Engineering Mechanics*, **117** (1991) 798-819.
 27. G.J. Le Beau and T.E. Tezduyar, "Finite Element Solution of Flow Problems with Mixed-Time Integration", *Journal of Engineering Mechanics*, **117** (1991) 1311-1330.
 28. T.E. Tezduyar, S. Mittal, S.E. Ray and R. Shih, "Incompressible Flow Computations with Stabilized Bilinear and Linear Equal-order-interpolation Velocity-Pressure Elements", *Computer Methods in Applied Mechanics and Engineering*, **95** (1992) 221-242.
 29. T.E. Tezduyar, M. Behr and J. Liou, "A New Strategy for Finite Element Computations Involving Moving Boundaries and Interfaces -- The Deforming-Spatial-Domain/Space-Time Procedure: I. The Concept and the Preliminary Numerical Tests", *Computer Methods in Applied Mechanics and Engineering*, **94** (1992) 339-351.
 30. T.E. Tezduyar, M. Behr, S. Mittal and J. Liou, "A New Strategy for Finite Element Computations Involving Moving Boundaries and Interfaces -- The Deforming-Spatial-Domain/Space-Time Procedure: II. Computation of Free-surface Flows, Two-liquid Flows, and Flows with Drifting Cylinders", *Computer Methods in Applied Mechanics and Engineering*, **94** (1992) 353-371.
 31. T.E. Tezduyar, "Stabilized Finite Element Formulations for Incompressible Flow Computations", *Advances in Applied Mechanics*, **28** (1992) 1-44.
 32. T.E. Tezduyar, M. Behr, S.K. Aliabadi, S. Mittal and S.E. Ray, "A New Mixed Preconditioning Method for Finite Element Computations", *Computer Methods in Applied Mechanics and Engineering*, **99** (1992) 27-42.
 33. O. Pironneau, J. Liou and T. Tezduyar, "Characteristic-Galerkin and Galerkin/Least-squares Space-Time Formulations for the Advection-Diffusion Equation with Time-dependent Domains", *Computer Methods in Applied Mechanics and Engineering*, **100** (1992) 117-141.
 34. S. Mittal and T.E. Tezduyar, "A Finite Element Study of Incompressible Flows Past Oscillating Cylinders and Airfoils", *International Journal for Numerical Methods in Fluids*, **15** (1992) 1073-1118.
 35. S. Mittal and T.E. Tezduyar, "Notes on the Stabilized Space-Time Finite Element Formulation of Unsteady Incompressible Flows", *Computer Physics Communications*, **73** (1992) 93-112.
 36. M.A. Behr, L.P. Franca and T.E. Tezduyar, "Stabilized Finite Element Methods for the Velocity-Pressure-Stress Formulation of Incompressible Flows", *Computer Methods in Applied Mechanics and Engineering*, **104** (1993) 31-48.
 37. G.J. Le Beau, S.E. Ray, S.K. Aliabadi and T.E. Tezduyar, "SUPG Finite Element Computation of Compressible Flows with the Entropy and Conservation Variables Formulations", *Computer Methods in Applied Mechanics and Engineering*, **104** (1993) 397-422.
 38. S.K. Aliabadi and T.E. Tezduyar, "Space-Time Finite Element Computation of Compressible Flows Involving Moving Boundaries and Interfaces", *Computer Methods in Applied Mechanics and Engineering*, **107** (1993) 209-223.

39. M. Behr, A. Johnson, J. Kennedy, S. Mittal and T. Tezduyar, "Computation of Incompressible Flows with Implicit Finite Element Implementations on the Connection Machine", *Computer Methods in Applied Mechanics and Engineering*, **108** (1993) 99-118.
40. M. Behr and T.E. Tezduyar, "Finite Element Solution Strategies for Large-Scale Flow Simulations", *Computer Methods in Applied Mechanics and Engineering*, **112** (1994) 3-24.
41. S. Mittal and T.E. Tezduyar, "Massively Parallel Finite Element Computation of Incompressible Flows Involving Fluid-Body Interactions", *Computer Methods in Applied Mechanics and Engineering*, **112** (1994) 253-282.
42. T. Tezduyar, S. Aliabadi, M. Behr, A. Johnson and S. Mittal, "Parallel Finite Element Computation of 3D Flows", *Computer*, **26** (1993) 27-36.
43. T.E. Tezduyar, S.K. Aliabadi, M. Behr and S. Mittal, "Massively Parallel Finite Element Simulation of Compressible and Incompressible Flows", *Computer Methods in Applied Mechanics and Engineering*, **119** (1994) 157-177.
44. J.G. Kennedy, M. Behr, V. Kalro and T.E. Tezduyar "Implementation of Implicit Finite Element Methods for Incompressible Flows on the CM-5", *Computer Methods in Applied Mechanics and Engineering*, **119** (1994) 95-111.
45. A.A. Johnson and T.E. Tezduyar, "Mesh Update Strategies in Parallel Finite Element Computations of Flow Problems with Moving Boundaries and Interfaces", *Computer Methods in Applied Mechanics and Engineering*, **119** (1994) 73-94.
46. G.P. Wren, S.E. Ray, S.K. Aliabadi and T.E. Tezduyar, "Space-Time Finite Element Computation of Compressible Flows Between Moving Components", *International Journal for Numerical Methods in Fluids*, **21** (1995) 981-991.
47. S. Mittal and T.E. Tezduyar, "Parallel Finite Element Simulation of 3D Incompressible Flows--Fluid-Structure Interactions", *International Journal for Numerical Methods in Fluids*, **21** (1995) 933-953.
48. S.K. Aliabadi and T.E. Tezduyar, "Parallel Fluid Dynamics Computations in Aerospace Applications", *International Journal for Numerical Methods in Fluids*, **21** (1995) 783-805.
49. K. Kashiyaama, H. Ito, M. Behr and T. Tezduyar, "Three-step Explicit Finite Element Computation of Shallow Water Flows on a Massively Parallel Computer", *International Journal for Numerical Methods in Fluids*, **21** (1995) 885-900.
50. M. Behr, D. Hastreiter, S. Mittal and T.E. Tezduyar, "Incompressible Flow Past a Circular Cylinder: Dependence of the Computed Flow Field on the Location of the Lateral Boundaries", *Computer Methods in Applied Mechanics and Engineering*, **123** (1995) 309-316.
51. A.A. Johnson and T.E. Tezduyar, "Simulation of Multiple Spheres Falling in a Liquid-Filled Tube", *Computer Methods in Applied Mechanics and Engineering*, **134** (1996) 351-373.
52. A.A. Johnson and T.E. Tezduyar, "Parallel Computation of Incompressible Flows with Complex Geometries", *International Journal for Numerical Methods in Fluids*, **24** (1997) 1321-1340.
53. V. Kalro, S. Aliabadi, W. Garrard, T. Tezduyar, S. Mittal, and K. Stein, "Parallel Finite Element Simulation of Large Ram-Air Parachutes", *International Journal for Numerical Methods in Fluids*, **24** (1997) 1353-1369.

54. W.B. Sturek, S. Ray, S. Aliabadi, C. Waters and T.E. Tezduyar, "Parallel Finite Element Computation of Missile Aerodynamics", *International Journal for Numerical Methods in Fluids*, **24** (1997) 1417-1432.
55. G.P. Wren, S.E. Ray, S.K. Aliabadi and T.E. Tezduyar, "Simulation of Flow Problems with Moving Mechanical Components, Fluid-Structure Interactions and Two-Fluid Interfaces", *International Journal for Numerical Methods in Fluids*, **24** (1997) 1433-1448.
56. T. Tezduyar, S. Aliabadi, M. Behr, A. Johnson, V. Kalro and M. Litke, "Flow Simulation and High Performance Computing", *Computational Mechanics*, **18** (1996) 397-412.
57. A.A. Johnson and T.E. Tezduyar, "3D Simulation of Fluid-Particle Interactions with the Number of Particles Reaching 100", *Computer Methods in Applied Mechanics and Engineering*, **145** (1997) 301-321.
58. K. Kashiyama, K. Saitoh, M. Behr and T.E. Tezduyar, "Parallel Finite Element Methods for Large-Scale Computation of Storm Surges and Tidal Flows", *International Journal for Numerical Methods in Fluids*, **24** (1997) 1371-1389.
59. V. Kalro and T. Tezduyar, "Parallel 3D Computation of Unsteady Flows around Circular Cylinders", *Parallel Computing*, **23** (1997) 1235-1248.
60. T. Tezduyar, V. Kalro and W. Garrard, "Parallel Computational Methods for 3D Simulation of a Parafoil with Prescribed Shape Changes", *Parallel Computing*, **23** (1997) 1349-1363.
61. S.E. Ray, G.P. Wren and T.E. Tezduyar, "Parallel Implementations of a Finite Element Formulation for Fluid-Structure Interactions in Interior Flows", *Parallel Computing*, **23** (1997) 1279-1292.
62. V. Kalro and T. Tezduyar, "3D Computation of Unsteady Flow past a Sphere with a Parallel Finite Element Method", *Computer Methods in Applied Mechanics and Engineering*, **151** (1998) 267-276.
63. N. Nigro, M. Storti, S. Idelsohn and T. Tezduyar, "Physics Based GMRES Preconditioner for Compressible and Incompressible Navier-Stokes Equations", *Computer Methods in Applied Mechanics and Engineering*, **154** (1998) 203-228.
64. T. Tezduyar, S. Aliabadi and M. Behr, "Enhanced-Discretization Interface-Capturing Technique (EDICT) for Computation of Unsteady Flows with Interfaces", *Computer Methods in Applied Mechanics and Engineering*, **155** (1998) 235-248.
65. S. Mittal and T. Tezduyar, "A Unified Finite Element Formulation for Compressible and Incompressible Flows Using Augmented Conservation Variables", *Computer Methods in Applied Mechanics and Engineering*, **161** (1998) 229-243.
66. I. Guler, M. Behr and T. Tezduyar, "Parallel Finite Element Computation of Free-Surface Flows", *Computational Mechanics*, **23** (1999) 117-123.
67. S. Mittal, S. Aliabadi and T. Tezduyar, "Parallel Computation of Unsteady Compressible Flows with the EDICT", *Computational Mechanics*, **23** (1999) 151-157.
68. M. Behr and T. Tezduyar, "The Shear-Slip Mesh Update Method", *Computer Methods in Applied Mechanics and Engineering*, **174** (1999) 261-274.
69. A.A. Johnson and T.E. Tezduyar, "Advanced Mesh Generation and Update Methods for 3D Flow Simulations", *Computational Mechanics*, **23** (1999) 130-143.

70. Y. Osawa, V. Kalro and T. Tezduyar, "Multi-Domain Parallel Computation of Wake Flows", *Computer Methods in Applied Mechanics and Engineering*, **174** (1999) 371-391.
71. K. Stein, R. Benney, V. Kalro, T.E. Tezduyar, J. Leonard and M. Accorsi, "Parachute Fluid-Structure Interactions: 3-D Computation", *Computer Methods in Applied Mechanics and Engineering*, **190** (2000) 373-386.
72. S. Aliabadi and T.E. Tezduyar, "Stabilized-Finite-Element/Interface-Capturing Technique for Parallel Computation of Unsteady Flows with Interfaces", *Computer Methods in Applied Mechanics and Engineering*, **190** (2000) 243-261.
73. K. Kashiwama, Y. Ohba, T. Takagi, M. Behr and T. Tezduyar, "Parallel Finite Element Method Utilizing the Mode Splitting and Sigma Coordinate for Shallow Water Flows", *Computational Mechanics*, **23** (1999) 144-150.
74. T.E. Tezduyar and S. Aliabadi, "EDICT for 3D Computation of Two-Fluid Interfaces", *Computer Methods in Applied Mechanics and Engineering*, **190** (2000) 403-410.
75. T.E. Tezduyar, "CFD Methods for Three-Dimensional Computation of Complex Flow Problems", *Journal of Wind Engineering and Industrial Aerodynamics*, **81** (1999) 97-116; also in the *Proceedings of the International Workshop on CFD for Wind Climate in Cities*, Hayama, Japan (1998).
76. M. Behr and T. Tezduyar, "Shear-Slip Mesh Update in 3D Computation of Complex Flow Problems with Rotating Mechanical Components", *Computer Methods in Applied Mechanics and Engineering*, **190** (2001) 3189-3200.
77. A. Johnson and T. Tezduyar, "Methods for 3D Computation of Fluid-Object Interactions in Spatially-Periodic Flows", *Computer Methods in Applied Mechanics and Engineering*, **190** (2001) 3201-3221.
78. T. Tezduyar and Y. Osawa, "Methods for Parallel Computation of Complex Flow Problems", *Parallel Computing*, **25** (1999) 2039-2066.
79. T.E. Tezduyar and Y. Osawa, "Finite Element Stabilization Parameters Computed from Element Matrices and Vectors", *Computer Methods in Applied Mechanics and Engineering*, **190** (2000) 411-430.
80. V. Kalro and T.E. Tezduyar, "A Parallel 3D Computational Method for Fluid-Structure Interactions in Parachute Systems", *Computer Methods in Applied Mechanics and Engineering*, **190** (2000) 321-332.
81. S.E. Ray and T.E. Tezduyar, "Fluid-Object Interactions in Interior Ballistics", *Computer Methods in Applied Mechanics and Engineering*, **190** (2000) 363-372.
82. M. Cruchaga, D. Celentano and T. Tezduyar, "A Moving Lagrangian Interface Technique for Flow Computations over Fixed Meshes", *Computer Methods in Applied Mechanics and Engineering*, **191** (2001) 525-543.
83. K. Stein, R. Benney, T. Tezduyar and J. Potvin, "Fluid-Structure Interactions of a Cross Parachute: Numerical Simulation", *Computer Methods in Applied Mechanics and Engineering*, **191** (2001) 673-687.
84. T. Tezduyar and Y. Osawa, "The Multi-Domain Method for Computation of the Aerodynamics of a Parachute Crossing the Far Wake of an Aircraft", *Computer Methods in Applied Mechanics and Engineering*, **191** (2001) 705-716.

85. T. Tezduyar and Y. Osawa, "Fluid-Structure Interactions of a Parachute Crossing the Far Wake of an Aircraft", *Computer Methods in Applied Mechanics and Engineering*, **191** (2001) 717-726.
86. T.E. Tezduyar, "Finite Element Methods for Flow Problems with Moving Boundaries and Interfaces", *Archives of Computational Methods in Engineering*, **8** (2001) 83-130; also in *Lecture Series on Finite Elements in Fluids*, T.E. Tezduyar, University of Tokyo, April-May 2001.
87. K.R. Stein, R.J. Benney, T.E. Tezduyar, J.W. Leonard and M.L. Accorsi, "Fluid-Structure Interactions of a Round Parachute: Modeling and Simulation Techniques", *Journal of Aircraft*, **38** (2001) 800-808.
88. H. Johari, K. Stein and T. Tezduyar, "Impulsively Started Flow About a Rigid Parachute Canopy", *Journal of Aircraft*, **38** (2001) 1102-1109.
89. M. Cruchaga, D. Celentano and T. Tezduyar, "Computation of Mould Filling Processes with a Moving Lagrangian Interface Technique", *Communications in Numerical Methods in Engineering*, **18** (2002) 483-493.
90. K. Stein, T. Tezduyar, V. Kumar, S. Sathe, R. Benney, E. Thornburg, C. Kyle and T. Nonoshita, "Aerodynamic Interactions Between Parachute Canopies", *Journal of Applied Mechanics*, **70** (2003) 50-57.
91. K. Stein, T. Tezduyar and R. Benney, "Mesh Moving Techniques for Fluid-Structure Interactions with Large Displacements", *Journal of Applied Mechanics*, **70** (2003) 58-63.
92. J.E. Akin, T. Tezduyar, M. Ungor and S. Mittal, "Stabilization Parameters and Smagorinsky Turbulence Model", *Journal of Applied Mechanics*, **70** (2003) 2-9.
93. T.E. Tezduyar, "Computation of Moving Boundaries and Interfaces and Stabilization Parameters", *International Journal for Numerical Methods in Fluids*, **43** (2003) 555-575; also in *Numerical Simulations of Incompressible Flows* (ed. M.M. Hafez), World Scientific, New Jersey (2003) 240-259.
94. K. Stein, T. Tezduyar and R. Benney, "Computational Methods for Modeling Parachute Systems", *Computing in Science & Engineering*, **5** (2003) 39-46.
95. T.E. Tezduyar and S. Sathe, "Enhanced-Discretization Space-Time Technique (EDSTT)", *Computer Methods in Applied Mechanics and Engineering*, **193** (2004) 1385-1401.
96. K. Stein, T.E. Tezduyar and R. Benney, "Automatic Mesh Update with the Solid-Extension Mesh Moving Technique", *Computer Methods in Applied Mechanics and Engineering*, **193** (2004) 2019-2032.
97. T.E. Tezduyar and S. Sathe, "Enhanced-Approximation Linear Solution Technique (EALST)", *Computer Methods in Applied Mechanics and Engineering*, **193** (2004) 2033-2049.
98. J.E. Akin and T.E. Tezduyar, "Calculation of the Advective Limit of the SUPG Stabilization Parameter for Linear and Higher-Order Elements", *Computer Methods in Applied Mechanics and Engineering*, **193** (2004) 1909-1922.
99. K. Stein, T.E. Tezduyar, S. Sathe, R. Benney and R. Charles, "Fluid-Structure Interaction Modeling of Parachute Soft-Landing Dynamics", *International Journal for Numerical Methods in Fluids*, **47** (2005) 619-631.

100. T.E. Tezduyar, S. Sathe, R. Keedy and K. Stein, "Space-Time Finite Element Techniques for Computation of Fluid-Structure Interactions", *Computer Methods in Applied Mechanics and Engineering*, **195** (2006) 2002-2027.
101. T.E. Tezduyar and S. Sathe, "Enhanced-Discretization Successive Update Method (EDSUM)", *International Journal for Numerical Methods in Fluids*, **47** (2005) 633-654.
102. M.A. Cruchaga, D.J. Celentano and T.E. Tezduyar, "Moving-Interface Computations with the Edge-Tracked Interface Locator Technique (ETILT)", *International Journal for Numerical Methods in Fluids*, **47** (2005) 451-469.
103. T.E. Tezduyar, "Interface-Tracking and Interface-Capturing Techniques for Finite Element Computation of Moving Boundaries and Interfaces", *Computer Methods in Applied Mechanics and Engineering*, **195** (2006) 2983-3000.
104. T.E. Tezduyar and M. Senga, "Stabilization and Shock-Capturing Parameters in SUPG Formulation of Compressible Flows", *Computer Methods in Applied Mechanics and Engineering*, **195** (2006) 1621-1632.
105. T.E. Tezduyar and A. Sameh, "Parallel Finite Element Computations in Fluid Mechanics", *Computer Methods in Applied Mechanics and Engineering*, **195** (2006) 1872-1884.
106. R. Torii, M. Oshima, T. Kobayashi, K. Takagi and T.E. Tezduyar, "Computer Modeling of Cardiovascular Fluid-Structure Interactions with the Deforming-Spatial-Domain/Stabilized Space-Time Formulation", *Computer Methods in Applied Mechanics and Engineering*, **195** (2006) 1885-1895.
107. T.E. Tezduyar, "Finite Elements in Fluids: Stabilized Formulations and Moving Boundaries and Interfaces", *Computers & Fluids*, **36** (2007) 191-206.
108. T.E. Tezduyar, "Finite Elements in Fluids: Special Methods and Enhanced Solution Techniques", *Computers & Fluids*, **36** (2007) 207-223.
109. L. Catabriga, A.L.G.A. Coutinho and T.E. Tezduyar, "Compressible Flow SUPG Parameters Computed from Element Matrices", *Communications in Numerical Methods in Engineering*, **21** (2005) 465-476.
110. R. Torii, M. Oshima, T. Kobayashi, K. Takagi and T.E. Tezduyar, "Influence of Wall Elasticity in Patient-Specific Hemodynamic Simulations", *Computers & Fluids*, **36** (2007) 160-168.
111. S. Sathe, R. Benney, R. Charles, E. Doucette, J. Miletti, M. Senga, K. Stein and T.E. Tezduyar, "Fluid-Structure Interaction Modeling of Complex Parachute Designs with the Space-Time Finite Element Techniques", *Computers & Fluids*, **36** (2007) 127-135.
112. T.E. Tezduyar and M. Senga, "SUPG Finite Element Computation of Inviscid Supersonic Flows with YZ β Shock-Capturing", *Computers & Fluids*, **36** (2007) 147-159.
113. T. Washio, T. Hisada, H. Watanabe and T.E. Tezduyar, "A Robust Preconditioner for Fluid-Structure Interaction Problems", *Computer Methods in Applied Mechanics and Engineering*, **194** (2005) 4027-4047.
114. F. Rispoli, A. Corsini and T.E. Tezduyar, "Finite Element Computation of Turbulent Flows with the Discontinuity-Capturing Directional Dissipation (DCDD)", *Computers & Fluids*, **36** (2007) 121-126.

115. J.E. Akin, T.E. Tezduyar and M. Ungor, "Computation of Flow Problems with the Mixed Interface-Tracking/Interface-Capturing Technique (MITICT)", *Computers & Fluids*, **36** (2007) 2-11.
116. T.E. Tezduyar, S. Sathe and K. Stein, "Solution Techniques for the Fully-Discretized Equations in Computation of Fluid-Structure Interactions with the Space--Time Formulations", *Computer Methods in Applied Mechanics and Engineering*, **195** (2006) 5743-5753.
117. L. Catabriga, A.L.G.A. Coutinho and T.E. Tezduyar, "Compressible Flow SUPG Parameters Computed from Degree-of-Freedom Submatrices", *Computational Mechanics*, **38** (2006) 334-343.
118. T.E. Tezduyar, M. Senga and D. Vicker, "Computation of Inviscid Supersonic Flows around Cylinders and Spheres with the SUPG Formulation and $YZ\beta$ Shock-Capturing", *Computational Mechanics*, **38** (2006) 469-481.
119. R. Torii, M. Oshima, T. Kobayashi, K. Takagi and T.E. Tezduyar, "Fluid-Structure Interaction Modeling of Aneurysmal Conditions with High and Normal Blood Pressures", *Computational Mechanics*, **38** (2006) 482-490.
120. M.A. Cruchaga, D.J. Celentano and T.E. Tezduyar, "Collapse of a Liquid Column: Numerical Simulation and Experimental Validation", *Computational Mechanics*, **39** (2007) 453-476.
121. A. Corsini, F. Rispoli, A. Santoriello and T.E. Tezduyar, "Improved Discontinuity-Capturing Finite Element Techniques for Reaction Effects in Turbulence Computation", *Computational Mechanics*, **38** (2006) 356-364.
122. T.E. Tezduyar and S. Sathe, "Enhanced-Discretization Selective Stabilization Procedure (EDSSP)", *Computational Mechanics*, **38** (2006) 456-468.
123. K. Takizawa, T. Yabe, Y. Tsugawa, T.E. Tezduyar and H. Mizoe, "Computation of Free-Surface Flows and Fluid-Object Interactions with the CIP Method Based on Adaptive Meshless Soroban Grids", *Computational Mechanics*, **40** (2007) 167-183.
124. F. Rispoli, R. Saavedra, A. Corsini and T.E. Tezduyar, "Computation of Inviscid Compressible Flows with the V-SGS Stabilization and $YZ\beta$ Shock-Capturing", *International Journal for Numerical Methods in Fluids*, **54** (2007) 695-706.
125. T.E. Tezduyar and S. Sathe, "Modeling of Fluid-Structure Interactions with the Space-Time Finite Elements: Solution Techniques", *International Journal for Numerical Methods in Fluids*, **54** (2007) 855-900.
126. T.E. Tezduyar, S. Sathe, T. Cragin, B. Nanna, B.S. Conklin, J. Pausewang and M. Schwaab, "Modeling of Fluid-Structure Interactions with the Space-Time Finite Elements: Arterial Fluid Mechanics", *International Journal for Numerical Methods in Fluids*, **54** (2007) 901-922.
127. T. Yabe, K. Takizawa, T.E. Tezduyar and H.-N. Im, "Computation of Fluid-Solid and Fluid-Fluid Interfaces with the CIP Method Based on Adaptive Soroban Grids -- An Overview", *International Journal for Numerical Methods in Fluids*, **54** (2007) 841-853.
128. K. Takizawa, K. Tanizawa, T. Yabe and T.E. Tezduyar, "Ship Hydrodynamics Computations with the CIP Method Based on Adaptive Soroban Grids", *International Journal for Numerical Methods in Fluids*, **54** (2007) 1011-1019.

129. Y. Bazilevs, V.M. Calo, T.E. Tezduyar and T.J.R. Hughes, "YZ β Discontinuity-Capturing for Advection-Dominated Processes with Application to Arterial Drug Delivery", *International Journal for Numerical Methods in Fluids*, **54** (2007) 593-608.
130. R. Torii, M. Oshima, T. Kobayashi, K. Takagi and T.E. Tezduyar, "Numerical Investigation of the Effect of Hypertensive Blood Pressure on Cerebral Aneurysm -- Dependence of the Effect on the Aneurysm Shape", *International Journal for Numerical Methods in Fluids*, **54** (2007) 995-1009.
131. M.A. Cruchaga, D.J. Celentano and T.E. Tezduyar, "A Numerical Model Based on the Mixed Interface-Tracking/Interface-Capturing Technique (MITICT) for Flows with Fluid-Solid and Fluid-Fluid Interfaces", *International Journal for Numerical Methods in Fluids*, **54** (2007) 1021-1030.
132. T.E. Tezduyar, S. Sathe, M. Schwaab and B.S. Conklin, "Arterial Fluid Mechanics Modeling with the Stabilized Space-Time Fluid-Structure Interaction Technique", *International Journal for Numerical Methods in Fluids*, **57** (2008) 601-629.
133. T.E. Tezduyar, S. Ramakrishnan and S. Sathe, "Stabilized Formulations for Incompressible Flows with Thermal Coupling", *International Journal for Numerical Methods in Fluids*, **57** (2008) 1189-1209.
134. T.E. Tezduyar, S. Sathe, J. Pausewang, M. Schwaab, J. Christopher and J. Crabtree, "Interface Projection Techniques for Fluid-Structure Interaction Modeling with Moving-Mesh Methods", *Computational Mechanics*, **43** (2008) 39-49.
135. T.E. Tezduyar, S. Sathe, M. Schwaab, J. Pausewang, J. Christopher and J. Crabtree, "Fluid-Structure Interaction Modeling of Ringsail Parachutes", *Computational Mechanics*, **43** (2008) 133-142.
136. S. Sathe and T.E. Tezduyar, "Modeling of Fluid-Structure Interactions with the Space-Time Finite Elements: Contact Problems", *Computational Mechanics*, **43** (2008) 51-60.
137. T.E. Tezduyar, M. Schwaab and S. Sathe, "Sequentially-Coupled Arterial Fluid-Structure Interaction (SCAFSI) Technique", *Computer Methods in Applied Mechanics and Engineering*, **198** (2009) 3524-3533.
138. M. Manguoglu, A.H. Sameh, T.E. Tezduyar and S. Sathe, "A Nested Iterative Scheme for Computation of Incompressible Flows in Long Domains", *Computational Mechanics*, **43** (2008) 73-80.
139. F. Rispoli, R. Saavedra, F. Menichini and T.E. Tezduyar, "Computation of Inviscid Supersonic Flows around Cylinders and Spheres with the V-SGS Stabilization and YZ β Shock-Capturing", *Journal of Applied Mechanics*, **76** (2009) 021209.
140. M. Manguoglu, A.H. Sameh, F. Saied, T.E. Tezduyar and S. Sathe, "Preconditioning Techniques for Nonsymmetric Linear Systems in the Computation of Incompressible Flows", *Journal of Applied Mechanics*, **76** (2009) 021204.
141. T.J.R. Hughes, G. Scovazzi and T.E. Tezduyar, "Stabilized Methods for Compressible Flows", *Journal of Scientific Computing*, **43** (2010) 343-368, DOI: 10.1007/s10915-008-9233-5.
142. M.A. Cruchaga, D.J. Celentano and T.E. Tezduyar, "Computational Modeling of the Collapse of a Liquid Column Over an Obstacle and Experimental Validation", *Journal of Applied Mechanics*, **76** (2009) 021202.

143. R. Torii, M. Oshima, T. Kobayashi, K. Takagi and T.E. Tezduyar, "Fluid-Structure Interaction Modeling of a Patient-Specific Cerebral Aneurysm: Influence of Structural Modeling", *Computational Mechanics*, **43** (2008) 151-159.
144. A. Corsini, F. Menichini, F. Rispoli, A. Santoriello and T.E. Tezduyar, "A Multiscale Finite Element Formulation with Discontinuity Capturing for Turbulence Models with Dominant Reactionlike Terms", *Journal of Applied Mechanics*, **76** (2009) 021211.
145. R. Torii, M. Oshima, T. Kobayashi, K. Takagi and T.E. Tezduyar, "Fluid-Structure Interaction Modeling of Blood Flow and Cerebral Aneurysm: Significance of Artery and Aneurysm Shapes", *Computer Methods in Applied Mechanics and Engineering*, **198** (2009) 3613-3621.
146. L. Catabriga, D.A.F. de Souza, A.L.G.A. Coutinho and T.E. Tezduyar, "Three-Dimensional Edge-Based SUPG Computation of Inviscid Compressible Flows with $YZ\beta$ Shock-Capturing", *Journal of Applied Mechanics*, **76** (2009) 021208.
147. K. Takizawa, J. Christopher, T.E. Tezduyar and S. Sathe, "Space-Time Finite Element Computation of Arterial Fluid-Structure Interactions with Patient-Specific Data", *International Journal for Numerical Methods in Biomedical Engineering*, **26** (2010) 101-116.
148. R. Torii, M. Oshima, T. Kobayashi, K. Takagi and T.E. Tezduyar, "Influence of Wall Thickness on Fluid-Structure Interaction Computations of Cerebral Aneurysms", *International Journal for Numerical Methods in Biomedical Engineering*, **26** (2010) 336-347.
149. M.-C. Hsu, Y. Bazilevs, V.M. Calo, T.E. Tezduyar and T.J.R. Hughes, "Improving Stability of Stabilized and Multiscale Formulations in Flow Simulations at Small Time Steps", *Computer Methods in Applied Mechanics and Engineering*, **199** (2010) 828-840.
150. T.E. Tezduyar, "Correct Implementation of the Fluid-Object Interactions Subcomputation Technique (FOIST)", *Communications in Numerical Methods in Engineering*, **25** (2009) 1055-1058.
151. T.E. Tezduyar, "Comments on `Simplex space-time meshes in finite element simulations'", *International Journal for Numerical Methods in Fluids*, **60** (2009) 1289-1290.
152. A. Corsini, C. Iossa, F. Rispoli and T.E. Tezduyar, "A DRD Finite Element Formulation for Computing Turbulent Reacting Flows in Gas Turbine Combustors", *Computational Mechanics*, **46** (2010) 159-167.
153. M. Manguoglu, K. Takizawa, A.H. Sameh and T.E. Tezduyar, "Solution of Linear Systems in Arterial Fluid Mechanics Computations with Boundary Layer Mesh Refinement", *Computational Mechanics*, **46** (2010) 83-89.
154. T.E. Tezduyar, K. Takizawa, C. Moorman, S. Wright and J. Christopher, "Multiscale Sequentially-Coupled Arterial FSI Technique", *Computational Mechanics*, **46** (2010) 17-29.
155. K. Takizawa, C. Moorman, S. Wright, J. Christopher and T.E. Tezduyar, "Wall Shear Stress Calculations in Space-Time Finite Element Computation of Arterial Fluid-Structure Interactions", *Computational Mechanics*, **46** (2010) 31-41.
156. T.E. Tezduyar, K. Takizawa, C. Moorman, S. Wright and J. Christopher, "Space-Time Finite Element Computation of Complex Fluid-Structure Interactions", *International Journal for Numerical Methods in Fluids*, **64** (2010) 1201-1218.

157. R. Torii, M. Oshima, T. Kobayashi, K. Takagi and T.E. Tezduyar, "Role of 0D Peripheral Vasculature Model in Fluid-Structure Interaction Modeling of Aneurysms", *Computational Mechanics*, **46** (2010) 43-52.
158. T.E. Tezduyar, "Comments on `Adiabatic shock capturing in perfect gas hypersonic flows'", *International Journal for Numerical Methods in Fluids*, **66** (2011) 935-938.
159. T.E. Tezduyar, "Comments on Paratrooper-Separation Modeling with the DSD/SST Formulation and FOIST", *International Journal for Numerical Methods in Fluids*, **66** (2011) 1068-1072.
160. K. Takizawa, C. Moorman, S. Wright, T. Spielman and T.E. Tezduyar, "Fluid-Structure Interaction Modeling and Performance Analysis of the Orion Spacecraft Parachutes", *International Journal for Numerical Methods in Fluids*, **65** (2011) 271-285.
161. K. Takizawa, C. Moorman, S. Wright, J. Purdue, T. McPhail, P.R. Chen, J. Warren and T.E. Tezduyar, "Patient-Specific Arterial Fluid-Structure Interaction Modeling of Cerebral Aneurysms", *International Journal for Numerical Methods in Fluids*, **65** (2011) 308-323.
162. K. Takizawa, S. Wright, C. Moorman and T.E. Tezduyar, "Fluid-Structure Interaction Modeling of Parachute Clusters", *International Journal for Numerical Methods in Fluids*, **65** (2011) 286-307.
163. Y. Bazilevs, M.-C. Hsu, I. Akkerman, S. Wright, K. Takizawa, B. Henicke, T. Spielman and T.E. Tezduyar, "3D Simulation of Wind Turbine Rotors at Full Scale. Part I: Geometry Modeling and Aerodynamics", *International Journal for Numerical Methods in Fluids*, **65** (2011) 207-235.
164. T.E. Tezduyar, "Comments on "Three-Dimensional Aerodynamic Simulations of Jumping Paratroopers and Falling Cargo Payloads"", *Journal of Aircraft*, **48** (2011) 1471-1472.
165. M. Manguoglu, K. Takizawa, A.H. Sameh and T.E. Tezduyar, "Nested and Parallel Sparse Algorithms for Arterial Fluid Mechanics Computations with Boundary Layer Mesh Refinement", *International Journal for Numerical Methods in Fluids*, **65** (2011) 135-149.
166. R. Torii, M. Oshima, T. Kobayashi, K. Takagi and T.E. Tezduyar, "Influencing Factors in Image-Based Fluid-Structure Interaction Computation of Cerebral Aneurysms", *International Journal for Numerical Methods in Fluids*, **65** (2011) 324-340.
167. A. Corsini, F. Rispoli and T.E. Tezduyar, "Stabilized Finite Element Computation of NOx Emission in Aero-engine Combustors", *International Journal for Numerical Methods in Fluids*, **65** (2011) 254-270.
168. S. Takase, K. Kashiya, S. Tanaka and T.E. Tezduyar, "Space-Time SUPG Formulation of the Shallow-Water Equations", *International Journal for Numerical Methods in Fluids*, **64** (2010) 1379-1394.
169. T.E. Tezduyar, K. Takizawa, T. Brummer and P.R. Chen, "Space-Time Fluid-Structure Interaction Modeling of Patient-Specific Cerebral Aneurysms", *International Journal for Numerical Methods in Biomedical Engineering*, **27** (2011) 1665-1710.
170. K. Takizawa and T.E. Tezduyar, "Multiscale Space-Time Fluid--Structure Interaction Techniques", *Computational Mechanics*, **48** (2011) 247-267.
171. K. Takizawa, B. Henicke, T.E. Tezduyar, M.-C. Hsu and Y. Bazilevs, "Stabilized Space-Time Computation of Wind-Turbine Rotor Aerodynamics", *Computational Mechanics*, **48** (2011) 333-344.

172. K. Takizawa, T. Spielman and T.E. Tezduyar, "Space-Time FSI Modeling and Dynamical Analysis of Spacecraft Parachutes and Parachute Clusters", *Computational Mechanics*, **48** (2011) 345-364.
173. K. Takizawa, T. Spielman, C. Moorman and T.E. Tezduyar, "Fluid-Structure Interaction Modeling of Spacecraft Parachutes for Simulation-Based Design", *Journal of Applied Mechanics*, **79** (2012) 010907.
174. K. Takizawa, T. Brummer, T.E. Tezduyar and P.R. Chen, "A Comparative Study Based on Patient-Specific Fluid-Structure Interaction Modeling of Cerebral Aneurysms", *Journal of Applied Mechanics*, **79** (2012) 010908.
175. K. Takizawa, B. Henicke, A. Puntel, T. Spielman and T.E. Tezduyar, "Space-Time Computational Techniques for the Aerodynamics of Flapping Wings", *Journal of Applied Mechanics*, **79** (2012) 010903.
176. K. Takizawa, B. Henicke, D. Montes, T.E. Tezduyar, M.-C. Hsu and Y. Bazilevs, "Numerical-Performance Studies for the Stabilized Space-Time Computation of Wind-Turbine Rotor Aerodynamics", *Computational Mechanics*, **48** (2011) 647-657.
177. M. Manguoglu, K. Takizawa, A.H. Sameh and T.E. Tezduyar, "A Parallel Sparse Algorithm Targeting Arterial Fluid Mechanics Computations", *Computational Mechanics*, **48** (2011) 377-384.
178. S. Takase, K. Kashiyama, S. Tanaka and T.E. Tezduyar, "Space-Time SUPG Finite Element Computation of Shallow-Water Flows with Moving Shorelines", *Computational Mechanics*, **48** (2011) 293-306.
179. A. Corsini, F. Rispoli and T.E. Tezduyar, "Computer Modeling of Wave-Energy Air Turbines with the SUPG/PSPG Formulation and Discontinuity-Capturing Technique", *Journal of Applied Mechanics*, **79** (2012) 010910.
180. K. Takizawa and T.E. Tezduyar, "Computational Methods for Parachute Fluid-Structure Interactions", *Archives of Computational Methods in Engineering*, **19** (2012) 125-169.
181. K. Takizawa, Y. Bazilevs and T.E. Tezduyar, "Space-Time and ALE-VMS Techniques for Patient-Specific Cardiovascular Fluid-Structure Interaction Modeling", *Archives of Computational Methods in Engineering*, **19** (2012) 171-225.
182. K. Takizawa and T.E. Tezduyar, "Space-Time Fluid-Structure Interaction Methods", *Mathematical Models and Methods in Applied Sciences*, **22** (supp02) (2012) 1230001.
183. Y. Bazilevs, M.-C. Hsu, K. Takizawa and T.E. Tezduyar, "ALE-VMS and ST-VMS Methods for Computer Modeling of Wind-Turbine Rotor Aerodynamics and Fluid-Structure Interaction", *Mathematical Models and Methods in Applied Sciences*, **22** (supp02) (2012) 1230002.
184. P.A. Kler, L.D. Dalcin, R.R. Paz and T.E. Tezduyar, "SUPG and Discontinuity-Capturing Methods for Coupled Fluid Mechanics and Electrochemical Transport Problems", *Computational Mechanics*, **51** (2013) 171-185.
185. K. Takizawa, B. Henicke, A. Puntel, N. Kostov and T.E. Tezduyar, "Space-Time Techniques for Computational Aerodynamics Modeling of Flapping Wings of an Actual Locust", *Computational Mechanics*, **50** (2012) 743-760.
186. K. Takizawa, N. Kostov, A. Puntel, B. Henicke and T.E. Tezduyar, "Space-Time Computational Analysis of Bio-inspired Flapping-Wing Aerodynamics of a Micro Aerial Vehicle", *Computational Mechanics*, **50** (2012) 761-778.

187. K. Takizawa, K. Schjodt, A. Puntel, N. Kostov and T.E. Tezduyar, "Patient-Specific Computer Modeling of Blood Flow in Cerebral Arteries with Aneurysm and Stent", *Computational Mechanics*, **50** (2012) 675-686.
188. K. Takizawa, M. Fritze, D. Montes, T. Spielman and T.E. Tezduyar, "Fluid-Structure Interaction Modeling of Ringsail Parachutes with Disreefing and Modified Geometric Porosity", *Computational Mechanics*, **50** (2012) 835-854.
189. A. Corsini, F. Rispoli, A.G. Sheard and T.E. Tezduyar, "Computational Analysis of Noise Reduction Devices in Axial Fans with Stabilized Finite Element Formulations", *Computational Mechanics*, **50** (2012) 695-705.
190. K. Takizawa, D. Montes, M. Fritze, S. McIntyre, J. Boben and T.E. Tezduyar, "Methods for FSI Modeling of Spacecraft Parachute Dynamics and Cover Separation", *Mathematical Models and Methods in Applied Sciences*, **23** (2013) 307-338.
191. K. Takizawa, D. Montes, S. McIntyre and T.E. Tezduyar, "Space-Time VMS Methods for Modeling of Incompressible Flows at High Reynolds Numbers", *Mathematical Models and Methods in Applied Sciences*, **23** (2013) 223-248.
192. K. Takizawa, K. Schjodt, A. Puntel, N. Kostov and T.E. Tezduyar, "Patient-Specific Computational Analysis of the Influence of a Stent on the Unsteady Flow in Cerebral Aneurysms", *Computational Mechanics*, **51** (2013) 1061-1073.
193. Y. Bazilevs, K. Takizawa and T.E. Tezduyar, "Challenges and Directions in Computational Fluid-Structure Interaction", *Mathematical Models and Methods in Applied Sciences*, **23** (2013) 215-221.
194. K. Takizawa, B. Henicke, A. Puntel, N. Kostov and T.E. Tezduyar, "Computer Modeling Techniques for Flapping-Wing Aerodynamics of a Locust", *Computers & Fluids*, **85** (2013) 125-134.
195. K. Takizawa and T.E. Tezduyar, "Bringing Them Down Safely", *Mechanical Engineering*, **134** (12) (2012) 34-37.
196. M.A. Cruchaga, R.S. Reinoso, M.A. Storti, D.J. Celentano and T.E. Tezduyar, "Finite Element Computation and Experimental Validation of Sloshing in Rectangular Tanks", *Computational Mechanics*, **52** (2013) 1301-1312.
197. K. Takizawa, T.E. Tezduyar, S. McIntyre, N. Kostov, R. Kolesar and C. Habluetzel, "Space-Time VMS Computation of Wind-Turbine Rotor and Tower Aerodynamics", *Computational Mechanics*, **53** (2014) 1-15.
198. K. Takizawa, T.E. Tezduyar, J. Boben, N. Kostov, C. Boswell and A. Buscher, "Fluid-Structure Interaction Modeling of Clusters of Spacecraft Parachutes with Modified Geometric Porosity", *Computational Mechanics*, **52** (2013) 1351-1364.
199. K. Takizawa and T.E. Tezduyar, "Space-Time Computation Techniques with Continuous Representation in Time (ST-C)", *Computational Mechanics*, **53** (2014) 91-99.
200. K. Takizawa, H. Takagi, T.E. Tezduyar and R. Torii, "Estimation of Element-Based Zero-Stress State for Arterial FSI Computations", *Computational Mechanics*, **54** (2014) 895-910.
201. K. Takizawa, T.E. Tezduyar, A. Buscher and S. Asada, "Space-Time Interface-Tracking with Topology Change (ST-TC)", *Computational Mechanics*, **54** (2014) 955-971.
202. K. Takizawa, T.E. Tezduyar and N. Kostov, "Sequentially-Coupled Space-Time FSI Analysis of Bio-inspired Flapping-Wing Aerodynamics of an MAV", *Computational Mechanics*, **54** (2014) 213-233.

203. K. Takizawa, Y. Bazilevs, T.E. Tezduyar, C.C. Long, A.L. Marsden and K. Schjodt, "ST and ALE-VMS Methods for Patient-Specific Cardiovascular Fluid Mechanics Modeling", *Mathematical Models and Methods in Applied Sciences*, **24** (2014) 2437-2486.
204. K. Takizawa, Y. Bazilevs, T.E. Tezduyar, M.-C. Hsu, O. Oiseth, K.M. Mathisen, N. Kostov and S. McIntyre, "Engineering Analysis and Design with ALE-VMS and Space-Time Methods", *Archives of Computational Methods in Engineering*, **21** (2014) 481-508.
205. Y. Bazilevs, K. Takizawa, T.E. Tezduyar, M.-C. Hsu, N. Kostov and S. McIntyre, "Aerodynamic and FSI Analysis of Wind Turbines with the ALE-VMS and ST-VMS Methods", *Archives of Computational Methods in Engineering*, **21** (2014) 359-398.
206. K. Takizawa, T.E. Tezduyar, A. Buscher and S. Asada, "Space-Time Fluid Mechanics Computation of Heart Valve Models", *Computational Mechanics*, **54** (2014) 973-986.
207. K. Takizawa, T.E. Tezduyar, C. Boswell, R. Kolesar and K. Montel, "FSI Modeling of the Reefed Stages and Disreefing of the Orion Spacecraft Parachutes", *Computational Mechanics*, **54** (2014) 1203-1220.
208. K. Takizawa, R. Torii, H. Takagi, T.E. Tezduyar and X.Y. Xu, "Coronary Arterial Dynamics Computation with Medical-Image-Based Time-Dependent Anatomical Models and Element-Based Zero-Stress State Estimates", *Computational Mechanics*, **54** (2014) 1047-1053.
209. A. Corsini, F. Rispoli, A.G. Sheard, K. Takizawa, T.E. Tezduyar and P. Venturini, "A Variational Multiscale Method for Particle-Cloud Tracking in Turbomachinery Flows", *Computational Mechanics*, **54** (2014) 1191-1202.
210. K. Takizawa, T.E. Tezduyar, R. Kolesar, C. Boswell, T. Kanai and K. Montel, "Multiscale Methods for Gore Curvature Calculations from FSI Modeling of Spacecraft Parachutes", *Computational Mechanics*, **54** (2014) 1461-1476.
211. K. Takizawa, T.E. Tezduyar, C. Boswell, Y. Tsutsui and K. Montel, "Special Methods for Aerodynamic-Moment Calculations from Parachute FSI Modeling", *Computational Mechanics*, published online, DOI: 10.1007/s00466-014-1074-5 (October 2014).
212. K. Takizawa, T.E. Tezduyar and A. Buscher, "Space-Time Computational Analysis of MAV Flapping-Wing Aerodynamics with Wing Clapping", *Computational Mechanics*, published online, DOI: 10.1007/s00466-014-1095-0 (January 2015).
213. K. Takizawa, T.E. Tezduyar and R. Kolesar, "FSI Modeling of the Orion Spacecraft Drogue Parachutes", *Computational Mechanics*, published online, DOI: 10.1007/s00466-014-1108-z (December 2014).
214. K. Takizawa, T.E. Tezduyar and T. Kuraishi "Multiscale ST Methods for Thermo-Fluid Analysis of a Ground Vehicle and its Tires", *Mathematical Models and Methods in Applied Sciences*, to appear (2015).

Other Journal Articles

1. M. Behr, T.E. Tezduyar and H. Higuchi, "Wake Interference Behind Two Flat Plates Normal to the Flow: A Finite Element Study", *Theoretical and Computational Fluid Dynamics*, **2** (1991) 223-250.
2. Y.J. Park, H.A. Deans and T.E. Tezduyar, "Thermal Effects on Single-Well Chemical Tracer Tests for Measuring Residual Oil Saturation", *Society of Petroleum Engineers Formation Evaluation*, September (1991) 401-408.

3. S. Mittal, A. Ratner, D. Hastreiter and T.E. Tezduyar, "Space-Time Finite Element Computation of Incompressible Flows with Emphasis on Flows Involving Oscillating Cylinders", *International Video Journal of Engineering Research*, **1** (1991) 83-96.
4. S.K. Aliabadi, S.E. Ray and T.E. Tezduyar, "SUPG Finite Element Computation of Viscous Compressible Flows Based on the Conservation and Entropy Variables Formulations", *Computational Mechanics*, **11** (1993) 300-312.
5. A.A. Johnson, T.E. Tezduyar and J. Liou, "Numerical Simulation of Flows Past Periodic Arrays of Cylinders", *Computational Mechanics*, **11** (1993) 371-383.
6. T.E. Tezduyar, "Site Report: The Army High Performance Computing Research Center", *IEEE Computational Science & Engineering*, Summer (1994) 6-8.
7. J. Chandra and T. Tezduyar, "High Performance Computing: an Army Initiative", *Army RD&A*, May-June (1995) 28-31.
8. V. Kalro and T. Tezduyar, "Parallel Iterative Computational Methods for 3D Finite Element Flow Simulations", *Computer Assisted Mechanics and Engineering Sciences*, **5** (1998) 173-183.
9. Y. Osawa and T. Tezduyar, "A Multi-Domain Method for 3D Computation of Wake Flow Behind a Circular Cylinder", *Computational Fluid Dynamics Journal*, **8** (1999) 296-308.
10. Y. Osawa and T. Tezduyar, "3D Simulation and Visualization of Unsteady Wake Flow Behind a Cylinder", *Journal of Visualization*, **2** (1999) 127-134.
11. W.B. Sturek, T.E. Tezduyar and P. Muzio, "Army High Performance Computing Research Center: A Unique Resource for Defense Basic Research and Education", *Army RD&A*, September-October (1999) 44-45.
12. A.M.K. Anderson and T.E. Tezduyar, "A K-PhD Education Program in Flow Simulation and Modeling", *Computational Fluid Dynamics Journal*, **9** (2000) 242-251.
13. T. Tezduyar and S. Sathe, "Stabilization Parameters in SUPG and PSPG Formulations", *Journal of Computational and Applied Mechanics*, **4** (2003) 71-88.
14. T.E. Tezduyar, "Calculation of the Stabilization Parameters in Finite Element Formulations of Flow Problems", *Applications of Computational Mechanics in Structures and Fluids* (eds. S.R. Idelsohn and V. Sonzogni), CIMNE, Barcelona (2005) 1-19.
15. K. Stein, T. Tezduyar, R. Benney, M. Accorsi and H. Johari, "Computational Modeling of Parachute Fluid-Structure Interactions", *Computational Fluid Dynamics Journal*, **12** (2003) 516-526.
16. T.E. Tezduyar, "Stabilized Finite Element Methods for Flows with Moving Boundaries and Interfaces", *HERMIS: The International Journal of Computer Mathematics and its Applications*, **4** (2003) 63-88.
17. L. Catabriga, A.L.G.A. Coutinho and T.E. Tezduyar, "Compressible Flow SUPG Stabilization Parameters Computed from Element-Edge Matrices", *Computational Fluid Dynamics Journal*, **13** (2004) 450-459.
18. R. Torii, M. Oshima, T. Kobayashi, K. Takagi and T.E. Tezduyar, "Influence of Wall Elasticity on Image-Based Blood Flow Simulation", in *Japan Society of Mechanical Engineers Journal Series A*, **70** (2004) 1224-1231 (in Japanese).
19. R. Torii, M. Oshima, T. Kobayashi, K. Takagi and T.E. Tezduyar, "Coupling 3D Fluid-Structure Interaction Modeling of Cerebral Aneurysm with 0D Arterial Network Model as

Boundary Conditions", *Transactions of the Japan Society for Simulation Technology*, **1** (2009) 81-90.

20. K. Takizawa and T.E. Tezduyar, "Main Aspects of the Space-Time Computational FSI Techniques and Examples of Challenging Problems Solved", *Mechanical Engineering Reviews*, Japan Society of Mechanical Engineers, **1** (2014) CM0005, **inaugural issue**.

Book Chapters

1. T.J.R. Hughes, T.E. Tezduyar and A.N. Brooks, "A Petrov-Galerkin Finite Element Formulation for Systems of Conservation Laws with Special Reference to the Compressible Euler Equations", *Numerical Methods for Fluid Dynamics* (eds. K.W. Morton and M.J. Baines), Academic Press, London (1982) 97-125.
2. T.J.R. Hughes, J. Winget, I. Levit and T.E. Tezduyar, "New Alternating Direction Procedures in Finite Element Analysis Based Upon EBE Approximate Factorizations", *Computer Methods for Nonlinear Solids and Structural Mechanics* (eds. S.N. Atluri and N. Perrone), AMD-Vol. 54, ASME, New York (1983) 75-109.
3. T.J.R. Hughes, M. Mallet, Y. Taki, T.E. Tezduyar and R. Zanutta, "A One-dimensional Shock Capturing Finite Element Method and Multi-dimensional Generalizations", *Numerical Methods for the Euler Equations of Fluid Dynamics* (eds. F. Angrand, A. Dervieux, J.A. Desideri and R. Glowinski), SIAM (1985) 371-408.
4. T.E. Tezduyar and L.T. Wheeler, "Analysis of Axisymmetric Finite Deformation Membrane Problems on the DEC Pro 350 Personal Computer", *Computer Aided Engineering* (ed. S.J. Brown), PVP-Vol. 98-5, ASME, New York (1985) 227-236.
5. L.P. Franca, I. Harari, T.J.R. Hughes, M. Mallet, F. Shakib, T.E. Spelce, F. Chalot and T.E. Tezduyar, "A Petrov-Galerkin Finite Element Method for the Compressible Euler and Navier-Stokes Equations", *Numerical Methods for Compressible Flows--Finite Difference, Element and Volume Techniques* (eds. T.E. Tezduyar and T.J.R. Hughes), AMD-Vol. 78, ASME, New York (1986) 19-44.
6. L.T. Wheeler, L.A. Graux and T.E. Tezduyar, "Axisymmetric Response of Finitely Deforming Elastic Membranes", *Impact: Effects of Fast and Transient Loadings* (eds. W.J. Ammann, W.K. Liu, J.A. Studer and T. Zimmermann), A.A. Balkema/ Rotterdam/ Brookfield (1988) 273-284.
7. T.E. Tezduyar and J. Liou, "Element-by-Element and Implicit-Explicit Finite Element Formulations in Computational Fluid Dynamics", *Domain Decomposition Methods for Partial Differential Equations* (eds. R. Glowinski, G.H. Golub, G.A. Meurant and J. Periaux), SIAM (1988) 281-300.
8. T.E. Tezduyar, J. Liou, T. Nguyen and S. Poole, "Adaptive Implicit-Explicit and Parallel Element-by-Element Factorization Schemes", Chapter 34 in *Domain Decomposition Methods* (eds. T.F. Chan, R. Glowinski, J. Periaux and O.B. Widlund), SIAM (1989) 443-463.
9. H. Higuchi, J. Liou, M. Behr and T.E. Tezduyar, "Finite Element Computations and Experimental Studies of Flow Past an Array of Plates", *Computational Experiments*, PVP-Vol. 176, ASME, New York (1989) 45-54.
10. T.E. Tezduyar, J. Liou, D.K. Ganjoo, M. Behr and R. Glowinski, "Unsteady Incompressible Flow Computations with the Finite Element Method", Chapter 9 in *Finite Elements in Fluids* (ed. T.J. Chung), Vol. 8, Hemisphere Publishing (1992) 177-209.

11. J. Liou and T.E. Tezduyar, "Combined AIE/EBE/GMRES Approach to Incompressible Flows", Chapter 27 in *Domain Decomposition Methods for Partial Differential Equations* (eds. T.F. Chan, R. Glowinski, J. Periaux and O.B. Widlund), SIAM (1990) 462-480.
12. T.E. Tezduyar, R. Shih and S. Mittal, "Unsteady Incompressible Flow Computations with Quadrilateral Elements", Chapter 11 in *Computing Methods in Applied Sciences and Engineering* (eds. R. Glowinski and A. Lichniewsky), SIAM (1990) 228-248.
13. J. Liou and T.E. Tezduyar, "Numerical Simulation of a Periodic Array of Cylinders Between Two Parallel Walls", *Numerical Simulation of Unsteady Flows and Transition to Turbulence* (eds. O. Pironneau, W. Rodi, I.L. Ryming, A.M. Savill and T.V. Truong), Cambridge University Press (1992) 277-283.
14. J. Liou and T.E. Tezduyar, "Clustered Element-by-Element Computations for Fluid Flow", Chapter 9 in *Parallel Computational Fluid Dynamics* (ed. H.D. Simon), MIT Press, Cambridge, Massachusetts (1992) 167-187.
15. J. Liou and T.E. Tezduyar, "A Clustered Element-by-Element Iteration Method for Finite Element Computations", Chapter 13 in *Domain Decomposition Methods for Partial Differential Equations* (eds. R. Glowinski, Y.A. Kuznetsov, G. Meurant, J. Periaux and O.B. Widlund), SIAM (1991) 140-150.
16. G.J. Le Beau and T.E. Tezduyar, "Finite Element Computation of Compressible Flows with the SUPG Formulation", *Advances in Finite Element Analysis in Fluid Dynamics*, FED-Vol. 123, ASME, New York (1991) 21-27.
17. T.E. Tezduyar and S. Mittal, "Finite Element Computation of Incompressible Flows", Chapter 11 in *Computational Nonlinear Mechanics in Aerospace Engineering* (ed. S.N. Atluri), *Progress in Aeronautics and Astronautics*, Volume 146, AIAA, Washington, DC (1992) 417-449.
18. S. Mittal and T.E. Tezduyar, "Direct Time-integration Methods: Stabilized Space-Time Finite Element Formulation of Incompressible Flows", Chapter 11 in *Solving Large-scale Problems in Mechanics* (ed. M. Papadarakakis), John Wiley & Sons (1993) 357-389.
19. S. Mittal and T.E. Tezduyar, "Computation of Unsteady Incompressible Flows Past Oscillating Cylinders", *Computer Applications in Civil and Building Engineering--Proceedings of the Fourth International Conference on Computing in Civil and Building Engineering*, Tokyo, Japan (1991) 95-102; also in the *Proceedings of the Second Caribbean Conference on Fluid Dynamics*, University of West Indies, St. Augustine, Trinidad (1992) 83-90.
20. T.E. Tezduyar, "Finite Element Computation of Unsteady Incompressible Flows Involving Moving Boundaries and Interfaces and Iterative Solution Strategies", Chapter 3 in *Special Course on Unstructured Grid Methods for Advection Dominated Flows*, AGARD-R-787, NATO Advisory Group for Aerospace Research and Development, Neuilly Sur Seine, France (1992).
21. T.E. Tezduyar, M. Behr, S. Mittal and A.A. Johnson, "Computation of Unsteady Incompressible Flows with the Stabilized Finite Element Methods--Space-Time Formulations, Iterative Strategies and Massively Parallel Implementations", *New Methods in Transient Analysis*, PVP-Vol. 246/ AMD-Vol. 143, ASME, New York (1992) 7-24.
22. T.E. Tezduyar, M. Behr, S.K. Aliabadi, S. Mittal and S.E. Ray, "A New Mixed Preconditioning Method Based on the Clustered Element-by-Element Preconditioners", *Domain Decomposition Methods in Science and Engineering*, Volume 157 in

- Contemporary Mathematics*, American Mathematical Society, Providence, Rhode Island (1994) 215-222.
23. V. Kalro and T.E. Tezduyar, "Parallel Finite Element Computation of 3D Incompressible Flows on MPPs", *Solution Techniques for Large-Scale CFD Problems* (ed. W.G. Habashi), John Wiley & Sons (1995); also in *Proceedings of the International Workshop on Solution Techniques for Large-Scale CFD Problems*, Montreal, Quebec, Canada (1994).
 24. T.E. Tezduyar, M. Behr and T.J.R. Hughes, "Finite Element Methods", Section 19.3 in *Handbook of Fluid Dynamics and Fluid Machinery*, John Wiley & Sons (1996).
 25. T.E. Tezduyar, M. Behr and T.J.R. Hughes, "High Performance Finite Element Computation of Fluid Dynamics Problems", *Computational Fluid Dynamics Review 1995* (eds. M. Hafez and K. Oshima), John Wiley & Sons (1995) 300-321.
 26. T. Tezduyar, S. Aliabadi, M. Behr, A. Johnson, V. Kalro and M. Litke, "High Performance Computing Techniques for Flow Simulations", Chapter 10 in *Parallel Solution Methods in Computational Mechanics* (ed. M. Papadrakakis), John Wiley & Sons (1997) 363-398.
 27. V. Kalro and T. Tezduyar, "Parallel 3D Finite Element Computation of Unsteady Flows Past a Sphere", *Advances in High Performance Computing* (eds. L. Grandinetti, J. Kowalik and M. Vajtersic), Kluwer Academic Publishers (1997) 335-352.
 28. A.A. Johnson and T.E. Tezduyar, "Fluid-Particle Simulations Reaching 100 Particles", in *Liquid-Solid Flows* (eds. M.C. Roco et al.), ASME Fluids Engineering, CD ROM by ASME/FED (1997).
 29. T. Tezduyar, S. Aliabadi and M. Behr, "Parallel Finite Element Computing Methods for Unsteady Flows with Interfaces", *Computational Fluid Dynamics Review 1998* (eds. M. Hafez and K. Oshima), World Scientific (1998) 643-667.
 30. T.E. Tezduyar, "Advanced Flow Simulation and Modeling", *Flow Simulation with the Finite Element Method* (in Japanese), Springer-Verlag, Tokyo, Japan (1998).
 31. T.E. Tezduyar, "Finite Elements in Fluids: Time-Integration and Related Solution Techniques", Chapter 3 in *Lecture Series on Finite Elements in Fluids*, T.E. Tezduyar, University of Tokyo, April-May 2001.
 32. T.E. Tezduyar, "Finite Elements in Fluids: Spatial Discretization for Incompressible Flows", Chapter 4 in *Lecture Series on Finite Elements in Fluids*, T.E. Tezduyar, University of Tokyo, April-May 2001.
 33. T.E. Tezduyar, "Finite Elements in Fluids: Computational Aspects of the Stabilized Formulations", Chapter 6 in *Lecture Series on Finite Elements in Fluids*, T.E. Tezduyar, University of Tokyo, April-May 2001.
 34. T.E. Tezduyar, "Finite Element Methods for Fluid Dynamics with Moving Boundaries and Interfaces", Chapter 17 in *Encyclopedia of Computational Mechanics, Volume 3: Fluids* (eds. E. Stein, R. De Borst and T.J.R. Hughes), John Wiley & Sons (2004).
 35. T.E. Tezduyar, "Moving Boundaries and Interfaces", *Finite Element Methods: 1970's and Beyond* (eds. L.P. Franca, T.E. Tezduyar and A. Masud), CIMNE, Barcelona (2004) 205-220.
 36. T.E. Tezduyar and A. Sameh, "Parallel Computing", *Finite Element Methods: 1970's and Beyond* (eds. L.P. Franca, T.E. Tezduyar and A. Masud), CIMNE, Barcelona (2004) 336-351.

37. T.E. Tezduyar, S. Sathe, K. Stein and L. Aureli, "Modeling of Fluid-Structure Interactions with the Space-Time Techniques", *Fluid-Structure Interaction -- Modelling, Simulation, Optimization* (eds. H-J. Bungartz and M. Schafer), *Lecture Notes on Computational Science and Engineering*, Vol. 53, Springer (2006) 50-81.
38. T.E. Tezduyar, S. Sathe, M. Schwaab, J. Christopher, J. Crabtree and J. Pausewang, "Modeling of Fluid-Structure Interactions with the Space-Time Finite Elements", Chapter 10 in *Flow Simulation with the Finite Element Method* (in Japanese), Springer, Tokyo, Japan (2008) 215-251.
39. T.E. Tezduyar, K. Takizawa and J. Christopher, "Multiscale Sequentially-Coupled Arterial Fluid-Structure Interaction (SCAFSI) Technique", *International Workshop on Fluid-Structure Interaction -- Theory, Numerics and Applications* (eds. S. Hartmann, A. Meister, M. Schaefer and S. Turek), Kassel University Press, Germany (2009) 231-252.
40. K. Takizawa, C. Moorman, S. Wright and T.E. Tezduyar, "Computer Modeling and Analysis of the Orion Spacecraft Parachutes", *Fluid-Structure Interaction II -- Modelling, Simulation, Optimization* (eds. H-J. Bungartz, M. Mehl and M. Schafer), *Lecture Notes on Computational Science and Engineering*, Vol. 73, Springer (2010) 53-81.
41. K. Takizawa, K. Schjodt, A. Puntel, N. Kostov and T.E. Tezduyar, "Patient-Specific Computational Fluid Mechanics of Cerebral Arteries with Aneurysm and Stent", Chapter 7 in *Multiscale Simulations and Mechanics of Biological Material* (eds. S. Li and D. Qian), Wiley (2013) 119-147.
42. K. Takizawa and T.E. Tezduyar, "Fluid-Structure Interaction Modeling of Patient-Specific Cerebral Aneurysms", *Visualization and Simulation of Complex Flows in Biomedical Engineering* (eds. R. Lima, Y. Imai, T. Ishikawa and M.S.N. Oliveira), *Lecture Notes in Computational Vision and Biomechanics*, Vol. 12, Springer (2014) 25-45.
43. K. Takizawa, Y. Bazilevs, T.E. Tezduyar, C.C. Long, A.L. Marsden and K. Schjodt, "Patient-Specific Cardiovascular Fluid Mechanics Analysis with the ST and ALE-VMS Methods", Chapter 4 in *Numerical Simulations of Coupled Problems in Engineering* (ed. S.R. Idelsohn), *Computational Methods in Applied Sciences*, Vol. 33, Springer (2014) 71-102.
44. K. Takizawa, Y. Bazilevs, T.E. Tezduyar, M.-C. Hsu, O. Oiseth, K.M. Mathisen, N. Kostov and S. McIntyre, "Computational Engineering Analysis and Design with ALE-VMS and ST Methods", Chapter 13 in *Numerical Simulations of Coupled Problems in Engineering* (ed. S.R. Idelsohn), *Computational Methods in Applied Sciences*, Vol. 33, Springer (2014) 321-353.
45. Y. Bazilevs, K. Takizawa, T.E. Tezduyar, M.-C. Hsu, N. Kostov and S. McIntyre, "Computational Wind-Turbine Analysis with the ALE-VMS and ST-VMS Methods", Chapter 14 in *Numerical Simulations of Coupled Problems in Engineering* (ed. S.R. Idelsohn), *Computational Methods in Applied Sciences*, Vol. 33, Springer (2014) 355-386.

Invited Conference Papers

1. T.J.R. Hughes, T.E. Tezduyar and A.N. Brooks, "Finite Element Methods for the Incompressible Navier-Stokes Equations and the Compressible Euler Equations", *Proceedings of the Sixth Invitational Symposium on the Unification of Finite Differences and Calculus of Variations* (ed. H. Kardestuncer), University of Connecticut (1982).
2. T.J.R. Hughes, T.E. Tezduyar and A.N. Brooks, "Streamline Upwind Formulations for Advection-Diffusion, Navier-Stokes, and First-order Hyperbolic Equations", *Proceedings*

- of the Fourth International Conference on Finite Element Methods in Fluid Flow*, University of Tokyo Press, Tokyo (1982).
3. T.E. Tezduyar and Y.J. Park, "Finite Element Procedures for Multi-component Convection-Diffusion-Reaction Systems", *Proceedings of the Sixth International Symposium on Finite Element Methods in Flow Problems*, Antibes, France (1986).
 4. T.E. Tezduyar, J. Liou, D.K. Ganjoo, R. Glowinski, T. Nguyen and S. Poole, "Large-scale Finite Element Computations Based on the Vorticity-Stream Function Formulation of the Incompressible Navier-Stokes Equations", *Computational Methods in Flow Analysis* (eds. H. Niki and M. Kawahara), Okayama University Science Press, Okayama (1988).
 5. Y.J. Park, H.A. Deans and T.E. Tezduyar, "Thermal Effects on Single-well Chemical Tracer Tests for Measuring Residual Oil Saturation in Heterogeneous Pore Systems", *Finite Element Analysis in Fluids* (eds. T.J. Chung and G.R. Karr), University of Alabama-Huntsville Press, Huntsville, Alabama (1989).
 6. T.E. Tezduyar, J. Liou, D.K. Ganjoo and R. Glowinski, "Solution Techniques for Incompressible Flow Problems", *Finite Element Analysis in Fluids* (eds. T.J. Chung and G.R. Karr), University of Alabama-Huntsville Press, Huntsville, Alabama (1989).
 7. J. Liou and T.E. Tezduyar, "Adaptive Implicit-Explicit Methods for Flow Problems", *Finite Element Analysis in Fluids* (eds. T.J. Chung and G.R. Karr), University of Alabama-Huntsville Press, Huntsville, Alabama (1989).
 8. T.E. Tezduyar, D.K. Ganjoo and R. Shih, "Incompressible Flow Computations Using Various Velocity-Pressure Elements", *Proceedings of the Ninth International Conference on Computing Methods in Applied Sciences and Engineering*, Paris, France (1990).
 9. T.E. Tezduyar, R. Shih, S. Mittal and D.K. Ganjoo, "Computation of Unsteady Incompressible Flows", *Proceedings of the First NCSA Conference on Finite Element Applications in Computational Mechanics*, Champaign, Illinois (1990).
 10. T.E. Tezduyar and J. Liou, "Parallel Incompressible Flow Computations with the Grouped Element-by-Element Method", *Proceedings of Parallel CFD--Implementations and Results Using Parallel Computers*, Indianapolis, Indiana (1990).
 11. T.E. Tezduyar, S. Mittal and S.E. Ray, "Incompressible Flow Formulations Using Stabilized Equal-order-interpolation Velocity-Pressure Elements", *Proceedings of the Fourth International Conference on Computing in Civil and Building Engineering*, Tokyo, Japan (1991).
 12. T.E. Tezduyar, S. Mittal and S.E. Ray, "Stabilization Techniques for Finite Element Computation of Incompressible Flows", *Numerical Techniques and Parallelism in Physics--Proceedings of the Ninth Summer School on Computing Techniques in Physics* (ed. J. Nadrchal), Institute of Physics, Praha, Czechoslovakia (1991).
 13. T.E. Tezduyar, S. Mittal, R. Shih and S.E. Ray, "Stabilized Incompressible Flow Computations Using Bilinear and Linear Equal-order-interpolation Velocity-Pressure Elements", *Computational Mechanics '91--Theory and Applications* (eds. S.N. Atluri, D.E. Beskos, R. Jones and G. Yagawa), ICES Publications, Atlanta, Georgia (1991).
 14. M. Behr and T.E. Tezduyar, "Galerkin/Least-squares Space-Time Finite Element Method for Deforming Domains--Recent Developments", *BAIL VI Proceedings of the Sixth International Conference on Boundary and Interior Layers--Computational and Asymptotic Methods* (ed. J.J.H. Miller), Front Range Press, Copper Mountain, Colorado (1992).

15. T. Tezduyar, S. Aliabadi, M. Behr, A. Johnson and S. Mittal, "Massively Parallel Finite Element Computation of Three-dimensional Flow Problems", *Proceedings of the 6th Japan Numerical Fluid Dynamics Symposium*, Tokyo, Japan (1992).
16. T. Tezduyar, S. Aliabadi, M. Behr, A. Johnson and S. Mittal, "Massively Parallel Finite Element Computation of 3D Flows--Mesh Update Strategies in Computation of Moving Boundaries and Interfaces", *Parallel Computational Fluid Dynamics--New Trends and Advances* (eds. A. Ecer, J. Hauser, P. Leca and J. Periaux), Elsevier (1995) 21-30.
17. K. Kashiwama, M. Behr and T. Tezduyar, "Massively Parallel Finite Element Computation of Shallow Water Flows and Contaminant Transport", *Computational Methods in Water Resources X* (eds. A. Peters et al.), Vol. 2, Kluwer Academic Publishers (1994).
18. S.K. Aliabadi and T.E. Tezduyar, "Massively Parallel Compressible Flow Computations in Aerospace Applications", *Extended Abstracts of the Second Japan-US Symposium on Finite Element Methods in Large-Scale Computational Fluid Dynamics*, Tokyo, Japan (1994).
19. S. Mittal and T.E. Tezduyar, "Massively Parallel Finite Element Simulation of Incompressible Flows", *Extended Abstracts of the Second Japan-US Symposium on Finite Element Methods in Large-Scale Computational Fluid Dynamics*, Tokyo, Japan (1994).
20. J.G. Kennedy, V. Kalro, M. Behr and T.E. Tezduyar, "A Strategy for Implementing Implicit Finite Element Methods for Incompressible Fluids on the CM-5", *Extended Abstracts of the Second Japan-US Symposium on Finite Element Methods in Large-Scale Computational Fluid Dynamics*, Tokyo, Japan (1994).
21. G.P. Wren, S.E. Ray, S.K. Aliabadi and T.E. Tezduyar, "Space-Time Finite Element Computation of Compressible Flow Between Moving Components", *Extended Abstracts of the Second Japan-US Symposium on Finite Element Methods in Large-Scale Computational Fluid Dynamics*, Tokyo, Japan (1994).
22. K. Kashiwama, H. Ito, M. Behr and T. Tezduyar, "Massively Parallel Finite Element Strategies for Large-Scale Computation of Shallow Water Flows and Contaminant Transport", *Extended Abstracts of the Second Japan-US Symposium on Finite Element Methods in Large-Scale Computational Fluid Dynamics*, Tokyo, Japan (1994).
23. T.E. Tezduyar, S. Mittal and S.K. Aliabadi, "Parallel Computation of Fluid Mechanics Applications", *Extended Abstracts of the Third World Congress on Computational Mechanics*, Chiba, Japan (1994).
24. K. Kashiwama, S. Yoshikawa, M. Behr and T. Tezduyar, "Massively Parallel Finite Element Computation of Storm Surge", *Lecture Notes on Finite Element Simulation of Flow Problems*, Japan Society of Fluid Dynamics, Tokyo, Japan (1995).
25. T. Tezduyar, S. Aliabadi, M. Behr, A. Johnson, V. Kalro, and C. Waters, "3D Simulation of Flow Problems with Parallel Finite Element Computations on the Cray T3D", *Computational Mechanics '95, Proceedings of International Conference on Computational Engineering Science*, Mauna Lani, Hawaii (1995).
26. A.A. Johnson and T.E. Tezduyar, "Mesh Generation and Update Strategies for Parallel Computation of 3D Flow Problems", *Computational Mechanics '95, Proceedings of International Conference on Computational Engineering Science*, Mauna Lani, Hawaii (1995).

27. A.A. Johnson and T.E. Tezduyar, "Numerical Simulation of Fluid-Particle Interactions", *Proceedings of the Ninth International Conference on Finite Elements in Fluids*, Venice, Italy (1995).
28. T.E. Tezduyar and A.A. Johnson, "The World of Flow Simulation", *Lecture Notes on Finite Element Simulation of Flow Problems*, Japan Society of Fluid Dynamics, Tokyo, Japan (1995).
29. T.E. Tezduyar and A.A. Johnson, "High Performance Computing", *Lecture Notes on Finite Element Simulation of Flow Problems*, Japan Society of Fluid Dynamics, Tokyo, Japan (1995).
30. T. Tezduyar, S. Aliabadi, M. Behr, A. Johnson, V. Kalro and M. Litke, "High Performance Computing in Flow Simulations", *Eurosim'96 HPCN Challenges in Telecomp and Telecom: Parallel Simulation of Complex Systems and Large-Scale Applications* (eds. L. Dekker, W. Smit and J.C. Zuidervart), North Holland, Amsterdam (1996) 27-34.
31. V. Kalro and T. Tezduyar, "Parallel Sparse Matrix Computations in Finite Element Flow Simulations on Distributed Memory Platforms", *Proceedings of the International Conference on Numerical Methods in Continuum Mechanics*, High Tatras, Slovakia (1996).
32. T. Tezduyar, S. Aliabadi, M. Behr, A. Johnson and M. Litke, "Parallel 3D Finite Element Computation of Contaminant Dispersion", *Advances in Computational Engineering Science* (eds. S.N. Atluri and G. Yagawa), *Proceedings of International Conference on Computational Engineering Science*, San Jose, Costa Rica (1997).
33. A.A. Johnson and T.E. Tezduyar, "Parallel Computing Methods for 3D Simulations of Fluid-Object Interactions", *Advances in Computational Engineering Science* (eds. S.N. Atluri and G. Yagawa), *Proceedings of International Conference on Computational Engineering Science*, San Jose, Costa Rica (1997).
34. S. Aliabadi and T. Tezduyar, "3D Simulation of Free-Surface Flows with Parallel Finite Element Method", *Advances in Computational Engineering Science* (eds. S.N. Atluri and G. Yagawa), *Proceedings of International Conference on Computational Engineering Science*, San Jose, Costa Rica (1997).
35. T. Tezduyar, S. Aliabadi and M. Behr, "Enhanced-Discretization Interface-Capturing Technique", *ISAC '97 High Performance Computing on Multiphase Flows* (eds. Y. Matsumoto and A. Prosperetti), Japan Society of Mechanical Engineers, Tokyo, Japan (1997).
36. T. Tezduyar, S. Aliabadi, M. Behr, I. Guler, A. Howard and M. Ellis, "Parallel Computing Methods for Free-Surface Flows", *Proceedings of the 7th International Conference on Computing in Civil and Building Engineering*, Seoul, Korea (1997).
37. M. Behr and T. Tezduyar, "A Note on Shear-Slip Mesh Update Method", *Lecture Notes of the Workshop on Parallel Computing in Applied Fluid Mechanics*, Scuola Normale Superiore, Pisa, Italy (1997).
38. T. Tezduyar, S. Aliabadi, M. Behr and I. Guler, "Finite Element Formulations for Unsteady Flows with Interfaces", *Proceedings of the 10th International Conference on Finite Elements in Fluids*, Tucson, Arizona (1998).
39. T. Tezduyar and S. Aliabadi, "3D Computation of Free-Surface Flows with the EDICT", *Proceedings of the 4th Japan-US Symposium on Finite Element Methods in Large-Scale Computational Fluid Dynamics*, Tokyo, Japan (1998).

40. S. Aliabadi and T. Tezduyar, "Parallel Computation of Two-Fluid Interfaces with the Finite Element Interface-Capturing Technique", *Proceedings of the 4th Japan-US Symposium on Finite Element Methods in Large-Scale Computational Fluid Dynamics*, Tokyo, Japan (1998).
41. V. Kalro and T. Tezduyar, "A Parallel Finite Element Methodology for 3D Computation of Fluid-Structure Interactions in Airdrop Systems", *Proceedings of the 4th Japan-US Symposium on Finite Element Methods in Large-Scale Computational Fluid Dynamics*, Tokyo, Japan (1998).
42. K. Stein, R. Benney, V. Kalro, T. Tezduyar, J. Leonard and M. Accorsi, "Parachute Fluid-Structure Interactions: 3-D Computation", *Proceedings of the 4th Japan-US Symposium on Finite Element Methods in Large-Scale Computational Fluid Dynamics*, Tokyo, Japan (1998).
43. S.E. Ray, G.P. Wren and T.E. Tezduyar, "Parallel Three-Dimensional Implementation of Fluid-Structure Interaction in a Thin-Walled Container", *Proceedings of the 4th Japan-US Symposium on Finite Element Methods in Large-Scale Computational Fluid Dynamics*, Tokyo, Japan (1998).
44. Y. Osawa, V. Kalro and T. Tezduyar, "Multi-Domain Parallel Computation of Wake Flows around Secondary Objects", *Proceedings of the 4th Japan-US Symposium on Finite Element Methods in Large-Scale Computational Fluid Dynamics*, Tokyo, Japan (1998).
45. A.A. Johnson and T.E. Tezduyar, "Parallel Computing Methods for Large-Scale 3D Simulation of Fluid-Object Interactions", *Computational Mechanics--New Trends and Applications* (eds. S. Idelsohn, E. Onate and E. Dvorkin), CD-ROM (1998).
46. M. Behr and T. Tezduyar, "Shear-Slip Mesh Update Method for Computation of Flow Problems with Spinning Geometries", *Computational Mechanics--New Trends and Applications* (eds. S. Idelsohn, E. Onate and E. Dvorkin), CD-ROM (1998).
47. A.A. Johnson and T.E. Tezduyar, "Direct Numerical Simulation of Fluid-Particle Flow with 1000 Spheres", *Proceedings of the NSF Workshop on Flow of Particulates and Fluids*, Santa Barbara, California (1998).
48. T. Tezduyar and S. Aliabadi, "EDICT for Computation of Unsteady Flows with Interfaces", *Modeling and Simulation Based Engineering* (eds. S.N. Atluri and P.E. O'Donoghue), *Proceedings of International Conference on Computational Engineering Science*, Atlanta, Georgia (1998).
49. Y. Osawa, V. Kalro, and T. Tezduyar., "A Multi-Domain Computational Method for Wake Flows", *Modeling and Simulation Based Engineering* (eds. S.N. Atluri and P.E. O'Donoghue), *Proceedings of International Conference on Computational Engineering Science*, Atlanta, Georgia (1998).
50. K. Stein, R. Benney, V. Kalro, T. Tezduyar, J. Leonard and M. Accorsi, "Parachute Fluid-Structure Interactions: Coupling Issues", *Modeling and Simulation Based Engineering* (eds. S.N. Atluri and P.E. O'Donoghue), *Proceedings of International Conference on Computational Engineering Science*, Atlanta, Georgia (1998).
51. S. Aliabadi and T. Tezduyar, "3D Simulation of Two-Fluid and Free-Surface Flows with the Stabilized-Finite-Element/Interface-Capturing Method", *Modeling and Simulation Based Engineering* (eds. S.N. Atluri and P.E. O'Donoghue), *Proceedings of International Conference on Computational Engineering Science*, Atlanta, Georgia (1998).

52. A. Johnson and T. Tezduyar, "Mesh Generation and Update Methods in 3D Flow Simulation and Modeling", *Modeling and Simulation Based Engineering* (eds. S.N. Atluri and P.E. O'Donoghue), *Proceedings of International Conference on Computational Engineering Science*, Atlanta, Georgia (1998).
53. S. Aliabadi, O. Olatidoye and T. Tezduyar, "Finite Element Simulation of Air Pollution around High-Rise Buildings", *Modeling and Simulation Based Engineering* (eds. S.N. Atluri and P.E. O'Donoghue), *Proceedings of International Conference on Computational Engineering Science*, Atlanta, Georgia (1998).
54. Y. Osawa, V. Kalro, and T. Tezduyar., "A Multi-Domain Method for Computation of Long-Wake Flows", *Proceedings of the 2nd Ankara International Aerospace Conference*, Ankara, Turkey (1998).
55. T.E. Tezduyar, "Finite Elements in Fluids: Governing Equations and Boundary Conditions", *Lecture Notes of the Shortcourse on Finite Elements in Fluids*, Computational Mechanics Division-Vol. 99-77, Japan Society of Mechanical Engineers, Tokyo, Japan (1999); also Chapter 1 in *Lecture Series on Finite Elements in Fluids*, T.E. Tezduyar, University of Tokyo, April-May 2001.
56. T.E. Tezduyar, "Finite Elements in Fluids: Spatial Discretization", *Lecture Notes of the Shortcourse on Finite Elements in Fluids*, Computational Mechanics Division-Vol. 99-77, Japan Society of Mechanical Engineers, Tokyo, Japan (1999); also Chapter 2 in *Lecture Series on Finite Elements in Fluids*, T.E. Tezduyar, University of Tokyo, April-May 2001.
57. T.E. Tezduyar, "Finite Elements in Fluids: Stabilized Formulations", *Lecture Notes of the Shortcourse on Finite Elements in Fluids*, Computational Mechanics Division-Vol. 99-77, Japan Society of Mechanical Engineers, Tokyo, Japan (1999); also Chapter 5 in *Lecture Series on Finite Elements in Fluids*, T.E. Tezduyar, University of Tokyo, April-May 2001.
58. Y. Osawa and T. Tezduyar, "A Multi-Domain Method for Flow Past a Parachute Crossing the Far Wake of an Aircraft", *EM2000* (ed. J.L. Tassoulas), The University of Texas, Austin, Texas, CD-ROM (2000).
59. M. Behr and T. Tezduyar, "Shear-Slip Mesh Update in 3D Computation of Complex Flow Problems with Rotating Mechanical Components", *EM2000* (ed. J.L. Tassoulas), The University of Texas, Austin, Texas, CD-ROM (2000).
60. K.R. Stein, R.J. Benney and T.E. Tezduyar, "Modeling and Simulation Techniques for Parachute Fluid-Structure Interactions", *EM2000* (ed. J.L. Tassoulas), The University of Texas, Austin, Texas, CD-ROM (2000).
61. T. Tezduyar, Y. Osawa, K. Stein, R. Benney, V. Kumar and J. McCune, "Numerical Methods for Computer Assisted Analysis of Parachute Mechanics", *Proceedings of 8th International Conference on Numerical Methods in Continuum Mechanics*, Liptovsky Jan, Slovakia, CD-ROM (2000).
62. T. Tezduyar, Y. Osawa, K. Stein, R. Benney, V. Kumar and J. McCune, "Computational Methods for Parachute Aerodynamics", *Computational Fluid Dynamics for the 21st Century* (eds. M. Hafez, K. Morinishi and J. Periaux), Springer (2001).
63. T. Tezduyar, "Computational Methods for Environmental Fluid Mechanics", *Proceedings of 8th Brazilian Congress of Thermal Engineering and Sciences*, Porto Alegre, Brazil (2000).

64. T.E. Tezduyar, "Progress and Power of Flow Simulation and Modeling", *Lecture Notes on Finite Element Simulation of Flow Problems*, Japan Society of Computational Fluid Dynamics, Tokyo, Japan (2000).
65. T.E. Tezduyar, "Methods for Moving Boundaries and Interfaces", *Lecture Notes on Finite Element Simulation of Flow Problems*, Japan Society of Computational Fluid Dynamics, Tokyo, Japan (2000).
66. T.E. Tezduyar, "Advanced Mesh Update Methods", *Lecture Notes on Finite Element Simulation of Flow Problems*, Japan Society of Computational Fluid Dynamics, Tokyo, Japan (2000).
67. T.E. Tezduyar, "Interface-Tracking and Interface-Capturing Techniques for Computation of Two-Fluid Flows", *Proceedings of the First MIT Conference on Computational Fluid and Solid Mechanics*, Boston, Massachusetts (2001).
68. L. Haubelt, R. Melton, W. Yee and T. Tezduyar, "Aerodynamics of the Crew Return Vehicle and Parafoil at Different Opening Stages", *Proceedings of the First MIT Conference on Computational Fluid and Solid Mechanics*, Boston, Massachusetts (2001).
69. V. Udoewa, R. Keedy, T. Nonoshita, T. Tezduyar, K. Stein and A. Johnson, "Aerodynamic Simulation of an Object Separating from an Aircraft During Initial Deployment", *Proceedings of the First MIT Conference on Computational Fluid and Solid Mechanics*, Boston, Massachusetts (2001).
70. K. Stein, R. Benney, T. Tezduyar, V. Kumar, E. Thornburg, C. Kyle and T. Nonoshita, "Aerodynamic Interaction Between Multiple Parachute Canopies", *Proceedings of the First MIT Conference on Computational Fluid and Solid Mechanics*, Boston, Massachusetts (2001).
71. T.E. Tezduyar, "Computational Mechanics in Modeling of Airdrop Systems", *Proceedings of the 41st Israel Annual Conference on Aerospace Sciences*, Tel Aviv, Israel (2001).
72. T. Tezduyar, V. Kumar, S. Sathe, K. Stein, R. Benney, E. Thornburg, C. Kyle and T. Nonoshita, "Aerodynamic and Fluid-Structure Interactions of Multiple Parachute Canopies", *Computational Technologies for Fluid/Thermal/Chemical/Stress Systems with Industrial Applications* (eds. C.R. Kleijn and V. Kudriavtsev), PVP-Vol. 424-2, ASME, New York (2001) 127-139.
73. T.E. Tezduyar, "Adaptive Determination of the Finite Element Stabilization Parameters", *Proceedings of the ECCOMAS Computational Fluid Dynamics Conference 2001*, Swansea, Wales, United Kingdom, CD-ROM (2001).
74. T. Tezduyar, "Finite Element Interface-Tracking and Interface-Capturing Techniques for Flows with Moving Boundaries and Interfaces", ASME Paper IMECE2001/HTD-24206, *Proceedings of the ASME Symposium on Fluid-Physics and Heat Transfer for Macro- and Micro-Scale Gas-Liquid and Phase-Change Flows*, ASME, New York, New York, CD-ROM (2001).
75. T.E. Tezduyar, "Stabilized Finite Element Formulations and Interface-Tracking and Interface-Capturing Techniques for Incompressible Flows", *Numerical Simulations of Incompressible Flows* (ed. M.M. Hafez), World Scientific, New Jersey (2003) 221-239.
76. T. Tezduyar, "Computational Modeling of Airdrop Systems", *Proceedings of the EuroConference on Computational Mechanics and Engineering Practice*, Szczyrk, Poland (2001).

77. T. Tezduyar, "Simulation of Parachute and Paratrooper Aerodynamics", *Proceedings of the First International Symposium on Advanced Fluid Information*, Sendai, Japan (2001).
78. T.E. Tezduyar, "Notes on the Equivalence of Selective Lumping and Numerical Diffusion Approaches", *Pre-Conference Proceedings of the Sixth Japan-US International Symposium on Flow Simulation and Modeling*, Fukuoka, Japan (2002).
79. T.E. Tezduyar, "Stabilization Parameters and Element Length Scales in SUPG and PSPG Formulations", *Book of Abstracts of An Euro Conference on Numerical Methods and Computational Mechanics, Miskolc, Hungary* (2002).
80. T.E. Tezduyar, "Computation of Moving Boundaries and Interfaces with Interface-Tracking and Interface-Capturing Techniques", *Pre-Conference Proceedings of the Sixth Japan-US International Symposium on Flow Simulation and Modeling*, Fukuoka, Japan (2002).
81. J.E. Akin, T. Tezduyar, M. Ungor and S. Mittal, "Stabilized Formulation Element Length Calculations for Higher-Order Elements", *Pre-Conference Proceedings of the Sixth Japan-US International Symposium on Flow Simulation and Modeling*, Fukuoka, Japan (2002).
82. K. Stein, T. Tezduyar and R. Benney, "Mesh Update with Solid-Extension Mesh Moving Technique", *Pre-Conference Proceedings of the Sixth Japan-US International Symposium on Flow Simulation and Modeling*, Fukuoka, Japan (2002).
83. K. Stein and T. Tezduyar, "Advanced Mesh Update Techniques for Problems Involving Large Displacements", *Proceedings of the Fifth World Congress on Computational Mechanics*, On-line publication: <http://wccm.tuwien.ac.at/>, Paper-ID: 81489, Vienna, Austria, Web Site (2002).
84. T. Tezduyar, "Stabilization Parameters and Local Length Scales in SUPG and PSPG Formulations", *Proceedings of the Fifth World Congress on Computational Mechanics*, On-line publication: <http://wccm.tuwien.ac.at/>, Paper-ID: 81508, Vienna, Austria, Web Site (2002).
85. T. Tezduyar, "Interface-Tracking and Interface-Capturing Techniques for Computation of Moving Boundaries and Interfaces", *Proceedings of the Fifth World Congress on Computational Mechanics*, On-line publication: <http://wccm.tuwien.ac.at/>, Paper-ID: 81513, Vienna, Austria, Web Site (2002).
86. K. Stein, T. Tezduyar and R. Benney, "Applications in Airdrop Systems: Fluid-Structure Interaction Modeling", *Proceedings of the Fifth World Congress on Computational Mechanics*, On-line publication: <http://wccm.tuwien.ac.at/>, Paper-ID: 81545, Vienna, Austria, Web Site (2002).
87. J.E. Akin, T. Tezduyar, M. Ungor and S. Mittal, "Stabilized Formulations and Smagorinsky Turbulence Model for Incompressible Flows", *Proceedings of the Fifth World Congress on Computational Mechanics*, On-line publication: <http://wccm.tuwien.ac.at/>, Paper-ID: 81512, Vienna, Austria, Web Site (2002).
88. M.A. Cruchaga, D.J. Celentano and T.E. Tezduyar, "Computation of Moving Interface Problems with the Edge-Track Interface Locator Technique", *Proceedings of the Fifth World Congress on Computational Mechanics*, On-line publication: <http://wccm.tuwien.ac.at/>, Paper-ID: 81457, Vienna, Austria, Web Site (2002).
89. T.E. Tezduyar, "Interface-Tracking, Interface-Capturing and Enhanced Solution Techniques", *Proceedings of the First South-American Congress on Computational Mechanics*, Santa Fe - Parana, Argentina, CD-ROM (2002).

90. T.E. Tezduyar, "Calculation of the Stabilization Parameters in SUPG and PSPG Formulations", *Proceedings of the First South-American Congress on Computational Mechanics*, Santa Fe - Parana, Argentina, CD-ROM (2002).
91. T.E. Tezduyar, "Finite Element Computational Methods for Moving Boundaries and Interfaces", *Proceedings of the Sixth Hellenic-European Conference on Computer Mathematics and its Applications*, Athens, Greece (2003).
92. T. Tezduyar, S. Sathe and K. Stein, "Finite Element Computational Methods for Fluid-Structure Interactions and Two-Fluid Interfaces", *NMCM2003 -- Numerical Methods in Computational Mechanics: Advances and Challenges*, Purdue University CD-ROM (2003).
93. T.E. Tezduyar, "Progress and Power of Flow Simulation and Modeling", *Lecture Notes on Finite Element Simulation of Flow Problems (Basic - Advanced Course)*, Japan Society of Computational Engineering and Sciences (2003) 1-8.
94. T.E. Tezduyar, "Methods for Moving Boundaries and Interfaces", *Lecture Notes on Finite Element Simulation of Flow Problems (Basic - Advanced Course)*, Japan Society of Computational Engineering and Sciences (2003) 90-99.
95. T.E. Tezduyar, "Advanced Mesh Update Methods", *Lecture Notes on Finite Element Simulation of Flow Problems (Basic - Advanced Course)*, Japan Society of Computational Engineering and Sciences (2003) 160-168.
96. T.E. Tezduyar, "Stabilized Finite Element Methods for Computation of Flows with Moving Boundaries and Interfaces", *Lecture Notes on Finite Element Simulation of Flow Problems (Basic - Advanced Course)*, Japan Society of Computational Engineering and Sciences (2003) 169-185.
97. T.E. Tezduyar, S. Sathe, R. Keedy and K. Stein, "Space-Time Techniques for Finite Element Computation of Flows with Moving Boundaries and Interfaces", *Proceedings of the III International Congress on Numerical Methods in Engineering and Applied Sciences*, Monterrey, Mexico, CD-ROM (2004).
98. F. Rispoli, P. Borrelli and T.E. Tezduyar "Discontinuity-Capturing Directional Dissipation (DCDD) in Computation of Turbulent Flows", *Proceedings of the European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS 2004*, Jyvaskyla, Finland, CD-ROM (2004).
99. T.E. Tezduyar "Determination of the Stabilization and Shock-Capturing Parameters in SUPG Formulation of Compressible Flows", *Proceedings of the European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS 2004*, Jyvaskyla, Finland, CD-ROM (2004).
100. J.E. Akin, T.E. Tezduyar, "SUPG Stabilization Parameters Computed from the Quadrature-Point Components of the Element-Level Matrices", *Proceedings of the European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS 2004*, Jyvaskyla, Finland, CD-ROM (January 2004).
101. T.E. Tezduyar, "Methods for Computation of Moving Boundaries and Interfaces", *Proceedings of the European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS 2004*, Jyvaskyla, Finland, CD-ROM (2004).
102. K.R. Stein, T.E. Tezduyar, V. Kumar, S.V. Sathe, R.J. Benney and R.D. Charles, "Numerical Simulation of Soft Landing for Clusters of Cargo Parachutes", *Proceedings of the European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS 2004*, Jyvaskyla, Finland, CD-ROM (2004).

103. M.A. Cruchaga, D.J. Celentano and T.E. Tezduyar, "Modeling of Moving Interface Problems with the ETILT", *Proceedings of the 6th World Congress on Computational Mechanics*, Beijing, China, CD-ROM (2004).
104. K.R. Stein, T.E. Tezduyar, S.V. Sathe, M. Senga, R.J. Benney and R.D. Charles, "Computational Methods and Applications in Parachute Maneuvers", *Proceedings of the 6th World Congress on Computational Mechanics*, Beijing, China, CD-ROM (2004).
105. K.R. Stein, T.E. Tezduyar, S.V. Sathe, M. Senga, R.J. Benney and R.D. Charles, "Computation of Parachute Maneuvers", *Proceedings of the 6th World Congress on Computational Mechanics*, Beijing, China, Tsinghua University Press & Springer-Verlag (2004) 621-625.
106. F. Rispoli, P. Borrelli and T.E. Tezduyar, "Computation of Turbulent Flows with the Discontinuity-Capturing Directional Dissipation (DCDD)", *Proceedings of the 6th World Congress on Computational Mechanics*, Beijing, China, CD-ROM (2004).
107. F. Rispoli, P. Borrelli and T.E. Tezduyar, "DCDD in Finite Element Computation of Turbulent Flows", *Proceedings of the 6th World Congress on Computational Mechanics*, Beijing, China, Tsinghua University Press & Springer-Verlag (2004) 576-581.
108. T.E. Tezduyar and M. Senga, "Determination of the Shock-Capturing Parameters in SUPG Formulation of Compressible Flows", *Proceedings of the 6th World Congress on Computational Mechanics*, Beijing, China, CD-ROM (2004).
109. R. Torii, M. Oshima, T. Kobayashi, K. Takagi and T.E. Tezduyar, "Computation of Cardiovascular Fluid-Structure Interactions with the DSD/SST Method", *Proceedings of the 6th World Congress on Computational Mechanics*, Beijing, China, CD-ROM (2004).
110. T.E. Tezduyar, "Interface-Tracking and Interface-Capturing Techniques for Computation of Moving Boundaries and Interfaces", *Proceedings of the 6th World Congress on Computational Mechanics*, Beijing, China, CD-ROM (2004).
111. T.E. Tezduyar, "Advanced Computational Techniques for Moving Boundaries and Interfaces", *Proceedings of the 6th World Congress on Computational Mechanics*, Beijing, China, Tsinghua University Press & Springer-Verlag (2004) 132-141.
112. T.E. Tezduyar, S. Sathe, R. Keedy and K. Stein, "Space-Time Finite Element Techniques for Computation of Fluid-Structure Interactions", *Extended Abstracts of 11th International Conference on Fracture*, Turin, Italy, CD-ROM (2005).
113. T.E. Tezduyar, S. Sathe, M. Senga and K. Stein, "Space-Time Techniques for Finite Element Computation of Fluid-Structure Interactions with Membranes", *Proceedings of the 5th International Conference on Computation of Shell and Spatial Structures*, Salzburg, Austria, CD-ROM (2005).
114. K.R. Stein, T.E. Tezduyar, S. Sathe and M. Senga, "Simulation of Parachute Descent and Maneuvers", *Proceedings of the 5th International Conference on Computation of Shell and Spatial Structures*, Salzburg, Austria, CD-ROM (2005).
115. K.R. Stein, T.E. Tezduyar, S. Sathe and M. Senga, "Challenges and Solutions in Parachute Modeling", *Proceedings of the 5th International Conference on Computation of Shell and Spatial Structures*, Salzburg, Austria, CD-ROM (2005).
116. A. Sameh, S. Sathe, K. Stein and T.E. Tezduyar, "Preconditioning Linear Systems of the Navier-Stokes Equations", *Proceedings of the 5th International Conference on Computation of Shell and Spatial Structures*, Salzburg, Austria, CD-ROM (2005).

117. T.E. Tezduyar, S. Sathe, M. Senga, L. Aureli, K. Stein and B. Griffin, "Finite Element Modeling of Fluid-Structure Interactions with Space-Time and Advanced Mesh Update Techniques", *Proceedings of the 10th International Conference on Numerical Methods in Continuum Mechanics*, Zilina, Slovakia, CD-ROM (2005).
118. T.E. Tezduyar, M. Schwaab and S. Sathe, "Arterial Fluid Mechanics with the Sequentially-Coupled Arterial FSI Technique", *Computational Methods for Coupled Problems in Science and Engineering, Coupled Problems 2007*, E. Onate, M. Papadrakakis and B. Schrefler (Eds), CIMNE, Barcelona, 2007.
119. T.E. Tezduyar, T. Cragin, S. Sathe and B. Nanna, "Arterial Fluid Mechanics with the SSTFSI Technique and Continuum Element Made of Hyperelastic (Mooney-Rivlin) Material", *Computational Methods for Coupled Problems in Science and Engineering, Coupled Problems 2007*, E. Onate, M. Papadrakakis and B. Schrefler (Eds), CIMNE, Barcelona, 2007.
120. A. Sameh, M. Manguoglu, S. Sathe and T.E. Tezduyar, "A Nested Iterative Scheme for Nonsymmetric Linear Systems", *Computational Methods for Coupled Problems in Science and Engineering, Coupled Problems 2007*, E. Onate, M. Papadrakakis and B. Schrefler (Eds), CIMNE, Barcelona, 2007.
121. R. Torii, M. Oshima, T. Kobayashi, K. Takagi and T.E. Tezduyar, "Fluid-Structure Interaction Modeling of Blood Flow and Arterial-Wall Deformation: Influence of Structural Modeling", *Computational Methods for Coupled Problems in Science and Engineering, Coupled Problems 2007*, E. Onate, M. Papadrakakis and B. Schrefler (Eds), CIMNE, Barcelona, 2007.
122. K. Takizawa, K. Tanizawa, T. Yabe and T.E. Tezduyar, "Computational Ship Hydrodynamics with the CIP Method", *Computational Methods in Marine Engineering, Marine 2007*, E. Onate, J. Garcia, P. Bergan and T. Kvamsdal (Eds), CIMNE, Barcelona, 2007.
123. T.E. Tezduyar, J. Pausewang and S. Sathe, "FSI Modeling of Sails", *Computational Methods in Marine Engineering, Marine 2007*, E. Onate, J. Garcia, P. Bergan and T. Kvamsdal (Eds), CIMNE, Barcelona, 2007.
124. T.E. Tezduyar, T. Cragin, S. Sathe and B. Nanna, "FSI Computations in Arterial Fluid Mechanics with Estimated Zero-Pressure Arterial Geometry", *Computational Methods in Marine Engineering, Marine 2007*, E. Onate, J. Garcia, P. Bergan and T. Kvamsdal (Eds), CIMNE, Barcelona, 2007.
125. A. Sameh, M. Manguoglu, S. Sathe, J. Pausewang and T.E. Tezduyar, "Iterative Techniques with Banded Preconditioners for Fluid Mechanics Computations Over Long Domains", *Computational Methods in Marine Engineering, Marine 2007*, E. Onate, J. Garcia, P. Bergan and T. Kvamsdal (Eds), CIMNE, Barcelona, 2007.
126. T. Yabe, K. Takizawa and T.E. Tezduyar, "Computation of Fluid-Structure Interactions with the CIP Method Based on Adaptive Meshless Soroban Grids", *Computational Methods in Marine Engineering, Marine 2007*, E. Onate, J. Garcia, P. Bergan and T. Kvamsdal (Eds), CIMNE, Barcelona, 2007.
127. T.E. Tezduyar, S. Sathe and J. Pausewang, "Stabilized Space-Time Fluid-Structure Interaction (SSTFSI) Technique -- Wind-Fabric Interactions ", *INSF 2007 -- International Conference on Recent Developments of Numerical Schemes for Flow Problems*, Fukuoka, Japan, 2007.

128. T.E. Tezduyar, S. Sathe, J. Pausewang, M. Schwaab, J. Crabtree and J. Christopher, "Air-Fabric Interaction Modeling with the Stabilized Space-Time FSI Technique", *Proceedings of the Third Asian-Pacific Congress on Computational Mechanics*, Kyoto, Japan, CD-ROM (2007).
129. T.E. Tezduyar, S. Sathe, M. Schwaab, B.S. Conklin and J. Pausewang, "Arterial Fluid Mechanics Modeling with the Stabilized Space-Time FSI Technique", *Proceedings of the Third Asian-Pacific Congress on Computational Mechanics*, Kyoto, Japan, CD-ROM (2007).
130. K. Takizawa, S. Sathe and T.E. Tezduyar, "Incompressible Flow Computations with the Multi-Moment and SUPG/PSPG Formulations", *Proceedings of the Third Asian-Pacific Congress on Computational Mechanics*, Kyoto, Japan, CD-ROM (2007).
131. A.H. Sameh, M. Manguoglu, S. Sathe, J. Pausewang, and T.E. Tezduyar, "Iterative Schemes for Time Accurate Solution of Flow in Long Narrow Domains", *Proceedings of the Third Asian-Pacific Congress on Computational Mechanics*, Kyoto, Japan, CD-ROM (2007).
132. B.S. Conklin, S. Sathe and T.E. Tezduyar, "Venous Valve Fluid-Structure Interaction Modeling", *Proceedings of the Third Asian-Pacific Congress on Computational Mechanics*, Kyoto, Japan, CD-ROM (2007).
133. T.E. Tezduyar, S. Sathe, J. Pausewang, M. Schwaab, J. Crabtree and J. Christopher, "Fluid-Structure Interaction Modeling with Moving-Mesh Techniques", *Proceedings of the Symposium on Recent Progress in Computational Fluid Dynamics*, Japan Society of Automotive Engineers, Tokyo, Japan, 2007.
134. T.E. Tezduyar, S. Sathe, K. Takizawa, M. Schwaab, J. Christopher, J. Pausewang and J. Crabtree, "Space-Time Fluid-Structure Interaction Modeling", *Proceedings of the 5th GSIC International Symposium -- Leading Studies in Computational Mechanics*, Tokyo Institute of Technology, Tokyo, Japan, 2008.
135. T.E. Tezduyar, K. Takizawa, J. Christopher, C. Moorman and S. Wright, "Interface Projection Techniques for Complex FSI Problems", *Computational Methods in Marine Engineering, Marine 2009*, T. Kvamsdal, B. Pettersen, P. Bergan E. Onate and J. Garcia (Eds), CIMNE, Barcelona, 2009.
136. T.E. Tezduyar, K. Takizawa and J. Christopher, "Sequentially-Coupled FSI Technique", *Computational Methods in Marine Engineering, Marine 2009*, T. Kvamsdal, B. Pettersen, P. Bergan E. Onate and J. Garcia (Eds), CIMNE, Barcelona, 2009.
137. K. Takizawa, J. Christopher, C. Moorman, S. Wright, J. Martin and T.E. Tezduyar, "Fluid-Structure Interaction Modeling of the Orion Spacecraft Parachutes", *Computational Methods for Coupled Problems in Science and Engineering, Coupled Problems 2009*, B. Schrefler, E. Onate and M. Papadrakakis (Eds), CIMNE, Barcelona, 2009.
138. K. Takizawa, J. Christopher, C. Moorman, J. Martin, J. Purdue, T. McPhail, P.R. Chen, J. Warren and T.E. Tezduyar, "Space-Time Finite Element Computation of Arterial FSI with Patient-Specific Data", *Computational Methods for Coupled Problems in Science and Engineering, Coupled Problems 2009*, B. Schrefler, E. Onate and M. Papadrakakis (Eds), CIMNE, Barcelona, 2009.
139. T.E. Tezduyar, K. Takizawa, J. Christopher, C. Moorman and S. Wright, "Space-Time Finite Element Computation of Complex FSI Problems", *Computational Methods for*

- Coupled Problems in Science and Engineering, Coupled Problems 2009*, B. Schrefler, E. Onate and M. Papadrakakis (Eds), CIMNE, Barcelona, 2009.
140. M. Manguoglu, K. Takizawa, A.H. Sameh and T.E. Tezduyar, "Novel Solvers for Linear Systems in Computational Fluid Dynamics", *Computational Methods in Marine Engineering, Marine 2009*, T. Kvamsdal, B. Pettersen, P. Bergan E. Onate and J. Garcia (Eds), CIMNE, Barcelona, 2009.
 141. K. Takizawa, T. Brummer, T.E. Tezduyar and P.R. Chen, "Comparative Patient-Specific FSI Modeling of Cerebral Aneurysms", *Computational Methods for Coupled Problems in Science and Engineering, Coupled Problems 2011*, M. Papadrakakis, E. Onate and B. Schrefler (Eds), CIMNE, Barcelona, 2011.
 142. K. Takizawa and T.E. Tezduyar, "Multiscale Space-Time Computation Techniques", *Computational Methods for Coupled Problems in Science and Engineering, Coupled Problems 2011*, M. Papadrakakis, E. Onate and B. Schrefler (Eds), CIMNE, Barcelona, 2011.
 143. K. Takizawa, T. Spielman and T.E. Tezduyar, "Space-Time FSI Modeling and Dynamical Analysis of Ringsail Parachute Clusters", *Computational Methods for Coupled Problems in Science and Engineering, Coupled Problems 2011*, M. Papadrakakis, E. Onate and B. Schrefler (Eds), CIMNE, Barcelona, 2011.
 144. K. Takizawa, T. Spielman and T.E. Tezduyar, "Fluid-Structure Interaction Modeling of Ringsail Parachute Clusters", *Recent Progress in Fluid Dynamics Research, Proceedings of the Sixth International Conference on Fluid Mechanics, AIP Conf. Proc. Vol 1376*, 7-11 (2011).
 145. K. Takizawa, T. Spielman and T.E. Tezduyar, "Space-Time FSI Modeling of Ringsail Parachute Clusters", *Structural Membranes 2011*, E. Onate, B. Kroplin and K.-U. Bletzinger (Eds), CIMNE, Barcelona, 2011.
 146. K. Takizawa, S. Wright, J. Christopher and T.E. Tezduyar, "Multiscale Sequentially-Coupled FSI Computation in Parachute Modeling", *Structural Membranes 2011*, E. Onate, B. Kroplin and K.-U. Bletzinger (Eds), CIMNE, Barcelona, 2011.
 147. K. Takizawa, M. Fritze, T. Spielman, C. Moorman, S. Tabata and T.E. Tezduyar, "Space-Time FSI Computation of Parachute Disreefing", *Proceedings of the 25th Computational Fluid Dynamics Conference*, Osaka, Japan (2011).
 148. K. Takizawa, S. Asada, N. Kostov and T.E. Tezduyar, "Space-Time Formulation of Fully-Coupled Fluid-Object Interaction", *Proceedings of the 25th Computational Fluid Dynamics Conference*, Osaka, Japan (2011).
 149. T.E. Tezduyar, K. Takizawa and S. Wright, "Fluid-Structure Interaction Modeling of Spacecraft Parachutes", *Extended Abstracts of the 61st National Congress of Theoretical and Applied Mechanics*, Tokyo, Japan, 2012.
 150. T.E. Tezduyar and K. Takizawa, "Space-Time Computational FSI Techniques -- Core Technologies", *Lectures on Computational Fluid-Structure Interaction*, Tokyo, Japan, 2012.
 151. K. Takizawa and T.E. Tezduyar, "Space-Time Computational FSI Techniques -- Special Technologies", *Lectures on Computational Fluid-Structure Interaction*, Tokyo, Japan, 2012.

152. T.E. Tezduyar, K. Takizawa and Y. Bazilevs, "Stabilized Formulations in Computational Fluid Mechanics and Fluid-Structure Interaction", *Lectures on Computational Fluid-Structure Interaction*, Tokyo, Japan, 2012.
153. Y. Bazilevs, K. Takizawa and T.E. Tezduyar, "ALE Method and ALE-VMS Technique", *Lectures on Computational Fluid-Structure Interaction*, Tokyo, Japan, 2012.
154. K. Takizawa, T.E. Tezduyar and Y. Bazilevs, "Space-Time Method and Space-Time VMS Technique", *Lectures on Computational Fluid-Structure Interaction*, Tokyo, Japan, 2012.
155. Y. Bazilevs, K. Takizawa and T.E. Tezduyar, "Introductory Computational Structural Mechanics", *Lectures on Computational Fluid-Structure Interaction*, Tokyo, Japan, 2012.
156. T.E. Tezduyar, K. Takizawa and Y. Bazilevs, "Mesh Update Methods for Computation of Flows With Moving Boundaries and Interfaces", *Lectures on Computational Fluid-Structure Interaction*, Tokyo, Japan, 2012.
157. K. Takizawa, T.E. Tezduyar and Y. Bazilevs, "FSI Coupling Techniques and Iterative Solution Methods", *Lectures on Computational Fluid-Structure Interaction*, Tokyo, Japan, 2012.
158. K. Takizawa, M. Fritze, D. Montes, S. McIntyre, J. Boben, S. Tabata, Y. Tsutsui and T.E. Tezduyar, "Computational Modeling of Parachute Fluid-Structure Interaction", *Proceedings of 17th Japan Society of Computational Engineering and Science Conference*, Kyoto, Japan, 2012.
159. K. Takizawa, K. Schjodt, A. Puntel, N. Kostov, H. Takagi, S. Asada and T.E. Tezduyar, "Patient-Specific Modeling of Cerebral Aneurysms with FSI and Stent", *Proceedings of 17th Japan Society of Computational Engineering and Science Conference*, Kyoto, Japan, 2012.
160. K. Takizawa, B. Henicke, A. Puntel, N. Kostov and T.E. Tezduyar, "Space-Time Computational Techniques for the Aerodynamics of Flapping Locust Wings", *Proceedings of International Workshop on Future of CFD and Aerospace Sciences*, Kobe, Japan, 2012.
161. T.E. Tezduyar and K. Takizawa, "Space-Time Computational Fluid-Structure Interaction Techniques", *Proceedings of the 19th National Computational Fluid Dynamics Conference*, Penghu, Taiwan, 2012.
162. K. Takizawa, T. Brummer, K. Schjodt, N. Kostov, A. Puntel, H. Takagi and T.E. Tezduyar, "Patient-Specific Modeling of Fluid-Structure Interaction and Stenting in Cerebral Arteries with Aneurysm", *Extended Abstracts of JSME-CMD International Computational Mechanics Symposium 2012*, Kobe, Japan, 2012.
163. K. Takizawa, T. Spielman and T.E. Tezduyar, "Dynamical Analysis of Parachute Clusters", *Extended Abstracts of JSME-CMD International Computational Mechanics Symposium 2012*, Kobe, Japan, 2012.
164. T.E. Tezduyar and K. Takizawa, "Introduction to Computational Fluid Mechanics with Computer-Generated Movies and Pictures", *Lecture Notes on Finite Elements in Flow Problems -- Basics and Applications*, Tokyo, Japan, 2012.
165. T.E. Tezduyar and K. Takizawa, "Mesh Update Methods for Flows with Moving Interfaces", *Lecture Notes on Finite Elements in Flow Problems -- Basics and Applications*, Tokyo, Japan, 2012.
166. K. Takizawa and T.E. Tezduyar "FSI Coupling Techniques", *Lecture Notes on Finite Elements in Flow Problems -- Basics and Applications*, Tokyo, Japan, 2012.

167. T.E. Tezduyar and K. Takizawa, "Stabilized Formulations -- Special Techniques", *Lecture Notes on Finite Elements in Flow Problems -- Basics and Applications*, Tokyo, Japan, 2012.
168. K. Takizawa and T.E. Tezduyar "Space-Time Method and Space-Time VMS Technique", *Lecture Notes on Finite Elements in Flow Problems -- Basics and Applications*, Tokyo, Japan, 2012.
169. T.E. Tezduyar and K. Takizawa, "Space-Time Computational FSI Techniques -- Core Technologies", *Lecture Notes on Finite Elements in Flow Problems -- Basics and Applications*, Tokyo, Japan, 2012.
170. K. Takizawa and T.E. Tezduyar "Space-Time Computational FSI Techniques -- Special Technologies", *Lecture Notes on Finite Elements in Flow Problems -- Basics and Applications*, Tokyo, Japan, 2012.
171. K. Takizawa, H. Takagi and T.E. Tezduyar, "Effect of Longitudinal Prestress in Arterial FSI", *Extended Abstracts of JSME 25th Computational Mechanics Division Conference*, Kobe, Japan, 2012.
172. K. Takizawa, D. Montes, M. Fritze, S. McIntyre, J. Boben, Y. Tsutsui and T.E. Tezduyar, "FSI Modeling of Spacecraft Parachute Dynamics and Cover Separation", *Extended Abstracts of JSME 25th Computational Mechanics Division Conference*, Kobe, Japan, 2012.

Contributed Conference Papers

1. T.E. Tezduyar and T.J.R. Hughes, "Finite Element Formulations for Convection Dominated Flows with Particular Emphasis on the Compressible Euler Equations", AIAA Paper 83-0125, *Proceedings of AIAA 21st Aerospace Sciences Meeting*, Reno, Nevada (1983).
2. T.J.R. Hughes and T.E. Tezduyar, "Finite Element Methods for the Compressible Euler Equations", *Proceedings of the Fifth International Symposium on Finite Element Methods in Flow Problems*, Austin, Texas (1984).
3. T.E. Tezduyar, H.A. Deans, Y.J. Park and P.W. Park, "Petrov-Galerkin Finite Element Formulations for Chemically Reacting Systems", *Proceedings of the World Congress III of Chemical Engineering*, Tokyo, Japan (1986).
4. T.E. Tezduyar, H.A. Deans and J. Marble, "Finite Element/Finite Difference Analysis of a Deep-well Oxidation Process", *Numerical Methods in Thermal Problems* (eds. R.W. Lewis, K. Morgan and W.G. Habashi), Vol. 5, Pineridge Press, Swansea, U.K. (1987).
5. T.E. Tezduyar, R. Glowinski and F. Glaisner, "Streamline-upwind/Petrov-Galerkin Procedures for the Vorticity-Stream Function Form of the Navier-Stokes Equations", *Numerical Methods in Laminar and Turbulent Flow* (eds. C. Taylor, W.G. Habashi and M.M. Hafez), Vol. 5, Pineridge Press, Swansea, U.K. (1987).
6. D.K. Ganjoo, W.D. Goodrich and T.E. Tezduyar, "Finite Element Simulation of Electrophoresis Separation Processes", *Proceedings of the Eight International Conference on Computing Methods in Applied Sciences and Engineering*, Versailles, France (1987).
7. T.E. Tezduyar, R. Glowinski, J. Liou, T. Nguyen and S. Poole, "Block-iterative Finite Element Computations for Incompressible Flow Problems", *Proceedings of the 1988 International Conference on Supercomputing*, Association for Computing Machinery (1988).

8. L. Wheeler, T.E. Tezduyar and L. Graux, "Aspherical Equilibria of Naturally Spherical Elastic Membranes", *Proceedings of the Twelfth Canadian Congress of Applied Mechanics*, Ottawa, Canada (1989).
9. K. Kashiyama, H. Ito, M. Behr and T. Tezduyar, "Massively Parallel Finite Element Method for Large-Scale Computation of Shallow Water Flows", *Extended Abstracts of the Third World Congress on Computational Mechanics*, Chiba, Japan (1994).
10. S.K. Aliabadi, W.L. Garrard, V. Kalro, S. Mittal and T.E. Tezduyar, "Parallel Finite Element Computation of the Dynamics of Large Ram Air Parachutes", AIAA Paper 95-1581, *Proceedings of AIAA 13th Aerodynamic Decelerator Systems Technology Conference and Seminar*, Clearwater Beach, Florida (1995).
11. W.L. Garrard, T.E. Tezduyar, S.K. Aliabadi, V. Kalro, J. Luker and S. Mittal, "Inflation Analysis of Ram Air Inflated Gliding Parachutes", AIAA Paper 95-1565, *Proceedings of AIAA 13th Aerodynamic Decelerator Systems Technology Conference and Seminar*, Clearwater Beach, Florida (1995).
12. G.P. Wren, S.M. Dash and T.E. Tezduyar, "New Directions in Computational Interior Ballistics", *Proceedings of 15th International Symposium on Ballistics*, Jerusalem, Israel (1995).
13. W. Sturek, S. Ray, S. Aliabadi, C. Waters and T. Tezduyar, "Parallel Finite Element Computation of Missile Flow Fields", *Proceedings of 20th Army Science Conference*, Norfolk, Virginia (1996); also in *Twentieth Army Science Conference: Award Winning Papers*, (eds. R. Chait, C. Kominos, M. Shur, M. Stroschio and J. Valdes), World Scientific (1997).
14. K.R. Stein, S.K. Aliabadi, W.L. Garrard, V. Kalro and T.E. Tezduyar, "Parallel Finite Element Computations on the Behavior of Large Ram-Air Parachutes", *Proceedings of 20th Army Science Conference*, Norfolk, Virginia (1996).
15. S.E. Ray, G.P. Wren, S.K. Aliabadi and T.E. Tezduyar, "High Performance Computation of Fluid-Structure Interaction and Two-Phase Flow Problems", *Proceedings of 20th Army Science Conference*, Norfolk, Virginia (1996).
16. G.P. Wren, S.E. Ray, T.E. Tezduyar and A. Hosangadi, "Fluid-Structure Interaction in Interior Ballistic Environments", *Proceedings of the 16th International Symposium on Ballistics*, Vol. I, American Defense Preparedness Association, San Francisco, California (1996).
17. S.E. Ray, G.P. Wren and T.E. Tezduyar, "Simulation of Compressible Fluid-Elastic Solid Interactions", AIAA Paper 97-0872, *Proceedings of AIAA 35th Aerospace Sciences Meeting*, Reno, Nevada (1997).
18. V. Kalro, W. Garrard and T. Tezduyar, "Parallel Finite Element Simulation of the Flare Maneuver of Large Ram-Air Parachutes", AIAA Paper 97-1427, *Proceedings of AIAA 14th Aerodynamic Decelerator Systems Technology Conference and Seminar*, San Francisco, California (1997).
19. K.R. Stein, R.J. Benney, V. Kalro, A.A. Johnson and T.E. Tezduyar, "Parallel Computation of Parachute Fluid-Structure Interactions", AIAA Paper 97-1505, *Proceedings of AIAA 14th Aerodynamic Decelerator Systems Technology Conference and Seminar*, San Francisco, California (1997).

20. S. Mittal and T. Tezduyar, "Finite Element Simulation of Large Ram-Air Parachutes", *Seminar Proceedings of National Symposium on Parachute and Lighter-than-Air Systems Technologies*, Para India (1997).
21. R.J. Benney, K.R. Stein, V. Kalro, T.E. Tezduyar, J.W. Leonard and M.L. Accorsi, "Parachute Performance Simulations: A 3D Fluid-Structure Interaction Model", *Science and Technology for Army After Next -- Proceedings of 21st Army Science Conference*, Norfolk, Virginia (1998).
22. S. Aliabadi, K. Shujaee and T. Tezduyar, "Parallel Simulation of Two-Phase Flow Problems Using the Finite Element Method", *Proceeding of the 7th Symposium on the Frontiers of Massively Parallel Computation (Frontiers'99)*, Annapolis, Maryland (1999).
23. T. Tezduyar, V. Kalro and W. Garrard, "Advanced Computational Methods for 3D Simulation of Parafoils", AIAA Paper 99-1712, *Proceedings of the 15th CEAS/AIAA Aerodynamic Decelerator Systems Technology Conference and Seminar*, Toulouse, France (1999).
24. K. Stein, R. Benney, T. Tezduyar, V. Kalro, J. Leonard and M. Accorsi, "3-D Computation of Parachute Fluid-Structure Interactions: Performance and Control", AIAA Paper 99-1714, *Proceedings of the 15th CEAS/AIAA Aerodynamic Decelerator Systems Technology Conference and Seminar*, Toulouse, France (1999).
25. K. Stein, R. Benney, T. Tezduyar, V. Kalro, J. Potvin and T. Bretl, "Fluid-Structure Interaction Simulation of a Cross Parachute: Comparison of Numerical Predictions with Wind Tunnel Data", AIAA Paper 99-1725, *Proceedings of the 15th CEAS/AIAA Aerodynamic Decelerator Systems Technology Conference and Seminar*, Toulouse, France (1999).
26. K. Kashiyama, S. Sugano, M. Behr and T.E. Tezduyar, "Space-Time Finite Element Method for Shallow Water Flows Considering Moving Boundaries", ASME Paper FEDSM99-7029, *Proceedings of the 3rd ASME/JSME Joint Fluids Engineering Conference*, San Francisco, California (1999).
27. H. Johari, K. Stein and T. Tezduyar, "Temporal Evolution of the Near-Wake of an Impulsively Started Parachute Canopy", AIAA Paper 2000-2530, *Proceedings of the AIAA Fluids 2000 Conference* (2000).
28. R.J. Benney, K.R. Stein, T.E. Tezduyar, M.L. Accorsi, W. Zhang and J.W. Leonard "Fluid-Structure Interaction Modeling of the US Army Personnel Parachute System", AIAA Paper 2000-4310, *Proceedings of the AIAA Guidance, Navigation and Control Conference*, Denver, Colorado (2000).
29. V. Udoewa, R. Keedy, T. Tezduyar, T. Nonoshita, K. Stein, R. Benney and A. Johnson, "Computational Aerodynamics of a Paratrooper Separating from an Aircraft", AIAA Paper 2001-2067, *Proceedings of the 16th AIAA Aerodynamic Decelerator Systems Technology Conference*, Boston, Massachusetts (2001).
30. K. Stein, R. Benney, T. Tezduyar, V. Kumar, S. Sathe, E. Thornburg, C. Kyle and T. Nonoshita, "Aerodynamic Interactions Involving Multiple Parachute Canopies", AIAA Paper 2001-2004, *Proceedings of the 16th AIAA Aerodynamic Decelerator Systems Technology Conference*, Boston, Massachusetts (2001).
31. L. Catabriga, A.L.G.A. Coutinho and T.E. Tezduyar, "Finite Element SUPG Parameters Computed from Local Matrices for Compressible Flows", *Proceedings of the 9th Brazilian Congress of Engineering and Thermal Sciences*, Caxambu, Brazil (2002).

32. K. Stein, T. Tezduyar, S. Sathe, M. Senga, C. Ozcan, T. Soltys, V. Kumar, R. Benney and R. Charles, "Simulation of Parachute Dynamics During Control Line Input Operations", AIAA Paper 2003-2151, *Proceedings of the 17th AIAA Aerodynamic Decelerator Systems Technology Conference*, Monterey, California (2003).
33. T. Washio, T. Hisada, H. Watanabe and T.E. Tezduyar, "Development of New Iterative Solvers Based on Incomplete LU Factorization for Fluid-Structure Strongly Coupled Finite Element Analysis", *Proceedings of the Annual Meeting of the Japan Society for Computational Engineering and Science*, Tokyo, Japan (2003).
34. L. Catabriga, A.L.G.A. Coutinho and T.E. Tezduyar, "Finite Element SUPG Parameters Computed from Local Edge Matrices for Compressible Flows", *Proceedings of the 17th International Congress of Mechanical Engineering*, Sao Paulo, Brazil (2003).
35. L. Catabriga, A.L.G.A. Coutinho and T.E. Tezduyar, "Finite Element SUPG Parameters Computed from Local DOF-Matrices for Compressible Flows", *Proceedings of the 24th Iberian Latin-American Congress on Computational Methods in Engineering*, Ouro Preto, Brazil (2003).
36. R. Benney, R. Charles, K. Stein, T. Tezduyar, V. Kumar, C. Ozcan, S. Sathe and M. Senga, "Fluid-Structure Interactions of Round Parachutes During Control Line Input Operations", *Proceedings of the 23rd Army Science Conference*, Orlando, Florida (2002). On-line publication: <http://www.asc2004.com/23rdASC/summaries/h/HP-14.pdf>.
37. R. Charles, R. Benney, K. Stein, T. Tezduyar, S. Sathe, M. Senga, C. Ozcan, T. Soltys, V. Kumar, M. Accorsi, Z. Xu and B. Zhou, "Airdrop Simulations of Controlled Parachute Descents", *Proceedings of the 2003 User Group Conference*, Department of Defense High Performance Computing Modernization Program, Bellevue, Washington (2003). Published by IEEE Computer Society.
38. K. Takizawa, T. Yabe and T.E. Tezduyar, "Flow Calculations with the Soroban CIP Scheme", *Proceedings of the Japan Society of Mechanical Engineers 17th Computational Mechanics Conference*, Sendai, Japan (2004).
39. R. Charles, M. Accorsi, S. Morton, R. Tomaro, K. Stein, S. Sathe and T. Tezduyar, "Overview of the Airdrop Systems Modeling Project with the Collaborative Simulation and Test (CST) Common High Performance Computing Software Initiative (CHSSI) Portfolio", AIAA Paper 2005-1621, *Proceedings of the 18th AIAA Aerodynamic Decelerator Systems Technology Conference*, Munich, Germany (2005).
40. M.A. Cruchaga, I.P. Prado, D.J. Celentano and T.E. Tezduyar, "Modeling the Collapse of a Liquid Column Over an Obstacle", *Proceedings of the XVI Congress on Numerical Methods and their Applications*, Cordoba, Argentina (2007).
41. K. Takizawa, K. Schjodt, N. Kostov, A. Puntel, H. Takagi and T.E. Tezduyar, "Patient-Specific Computer Modeling of Blood Flow in Cerebral Arteries with Aneurysm and Stent", *Proceedings of Annual Meeting of Japan Society of Mechanical Engineers*, Kanazawa, Japan, 2012.
42. T. Kuraishi, K. Takizawa, S. Tabata, S. Asada and T.E. Tezduyar, "Multiscale Thermo-Fluid Analysis of a Tire", *Proceedings of the 19th Japan Society of Computational Engineering and Science Conference*, Hiroshima, Japan (2014).
43. Y. Tsutsui, N. Toh, T. Terahara, K. Takizawa, T.E. Tezduyar and C. Boswell, "Ringsail-Parachute Design Studies Based on Aerodynamic-Moment Computation with Resolved

Geometric Porosity", *Proceedings of 58th Symposium on Space Science and Technology*,
Nagasaki, Japan (2014).