

Dr. Mohamed Gad-el-Hak

Summary of Publications

- Books: 18 books.
- Journal Articles: 107 journal articles.
- Articles in Books and Proceedings: 118 publications.
- Refereed Articles and Presentations: 112 articles.
- Reports: 120 reports.
- Book Reviews: 21 reviews.
- Patents: 2 granted; 6 disclosed.
- Invited Lectures: 285 lectures.

List of Publications

I. Books

1. Gad-el-Hak, M. (editor) (1989) *Advances in Fluid Mechanics Measurements, Lecture Notes in Engineering*, vol. 45, 606 pages, Springer-Verlag, New York.
2. Gad-el-Hak, M. (editor) (1989) *Frontiers in Experimental Fluid Mechanics, Lecture Notes in Engineering*, vol. 46, 532 pages, Springer-Verlag, New York.
3. Bonnet, J.-P., Gad-el-Hak, M., and Pollard, A. (editors) (1996) *Proceedings of the Workshop on Flow Control: Fundamentals and Practices*, 200 pages, Institut d'Etudes Scientifiques des Cargèse, Corsica, France.
4. Breuer, K.S., Bandyopadhyay, P.R., and Gad-el-Hak, M. (editors) (1996) *Application of Microfabrication to Fluid Mechanics*, DSC-Volume 59, 468 pages, ASME, New York.
5. Gad-el-Hak, M., Pollard, A., and Bonnet, J.-P. (editors) (1998) *Flow Control: Fundamentals and Practices, Lecture Notes in Physics*, vol. m53, 540 pages, Springer-Verlag, Berlin.
6. Gad-el-Hak, M. (guest editor) (1998) *Flow Control: Fundamentals and Practices*, special issue of *Experimental Thermal and Fluid Science (ETFS)*, vol. 16, no. 1&2, 172 pages, Elsevier, New York.
7. Gad-el-Hak, M. (2000) *Flow Control: Passive, Active, and Reactive Flow Management*, 448 pages, Cambridge University Press, London, United Kingdom. Reprinted in paperback 2006.
8. Gad-el-Hak, M. (editor) (2002) *The MEMS Handbook*, 1368 pages, CRC Press, Boca Raton, Florida. Second edition 2006.
9. Gad-el-Hak, M. (editor) (2004) *Proceedings of the International Conference on Transport Phenomena in Micro- and Nanodevices*, CD Publication, Engineering Conference International, Brooklyn, New York.
10. Gad-el-Hak, M. (guest editor) (2005) *Special Topics: Transport Phenomena in Micro- and Nanodevices*, special issue of *Physics of Fluids*, vol. 17, no. 10, 139 pages, American Institute of Physics, New York.
11. Gad-el-Hak, M. (editor) (2006) *MEMS: Introduction and Fundamentals*, 448 pages, CRC Taylor & Francis, Boca Raton, Florida.

12. Gad-el-Hak, M. (editor) (2006) *MEMS: Design and Fabrication*, 664 pages, CRC Taylor & Francis, Boca Raton, Florida.
13. Gad-el-Hak, M. (editor) (2006) *MEMS: Applications*, 568 pages, CRC Taylor & Francis, Boca Raton, Florida.
14. Gad-el-Hak, M., and Tsai, H.M. (editors) (2006) *Transition and Turbulence Control*, 444 pages, World Scientific, Singapore.
15. Gad-el-Hak, M. (editor) (2006) *Proceedings of the U.S.-Egypt Workshop on Predictive Methodologies for Global Weather-Related Disasters*, CD Publication, Virginia Commonwealth University, Richmond, Virginia.
16. Gad-el-Hak, M. (editor) (2006) *Proceedings of the Second International Conference on Transport Phenomena in Micro- and Nanodevices*, CD Publication, Engineering Conference International, Brooklyn, New York.
17. Gad-el-Hak, M. (guest editor) (2007) *Transport Phenomena in Micro- and Nanodevices*, special issue of *Nanoscale and Microscale Thermophysical Engineering*, vol. 11, no. 1–2, 226 pages, Taylor & Francis, New York, New York.
18. Gad-el-Hak, M. (editor) (2008) *Large-Scale Disasters: Prediction, Control, and Mitigation*, 600 pages, Cambridge University Press, London, United Kingdom.

II. Journal Articles

1. Gad-el-Hak, M., and Corrsin, S. (1974) “Measurements of the Nearly Isotropic Turbulence Behind a Uniform Jet Grid,” *Journal of Fluid Mechanics* **62**, pp. 115–143.
2. Kutchai, H., Morton, J.B., and Gad-el-Hak, M. (1977) “Turbulent-Flow Properties of Dilute Solutions of Red Blood-Cells,” *Biophysical Journal* **17**, p. A260.
3. Gad-el-Hak, M., Morton, J.B., and Kutchai, H. (1977) “Turbulent-Flow of Red-Cells in Dilute Suspensions: Effect on Kinetics of O₂ Uptake,” *Biophysical Journal* **18**, pp. 289–300.
4. Howard, A.D., Morton, J.B., Gad-el-Hak, M., and Pierce, D.B. (1978) “Sand Transport Model of Barchan Dune Equilibrium,” *Sedimentology* **25**, pp. 307–338.
5. Gad-el-Hak, M., and Morton, J.B. (1979) “Experiments on the Diffusion of Smoke in Isotropic Turbulent Flow,” *AIAA Journal* **17**, pp. 558–562.
6. Gad-el-Hak, M., Blackwelder, R.F., and Riley, J.J. (1981) “On the Growth of Turbulent Regions in Laminar Boundary Layers,” *Journal of Fluid Mechanics* **110**, pp. 73–95.
7. Gad-el-Hak, M., Davis, S.H., McMurray, J.T., and Orszag, S.A. (1984) “On the Stability of the Decelerating Boundary Layer,” *Journal of Fluid Mechanics* **138**, pp. 297–323.
8. Lin, J.-T., and Gad-el-Hak, M. (1984) “Turbulence Characteristics in Wind-Waves,” *Journal of Geophysical Research* **89**, no. C1, pp. 627–636.
9. Gad-el-Hak, M., Blackwelder, R.F., and Riley, J.J. (1984) “On the Interaction of Compliant Coatings with Boundary Layer Flows,” *Journal of Fluid Mechanics* **140**, pp. 257–280.
10. Gad-el-Hak, M., and Blackwelder, R.F. (1985) “The Discrete Vortices from a Delta Wing,” *AIAA Journal* **23**, pp. 961–962.
11. Gad-el-Hak, M., and Ho, C.-M. (1985) “The Pitching Delta Wing,” *AIAA Journal* **23**, pp. 1660–1665.
12. Gad-el-Hak, M. (1986) “The Response of Elastic and Viscoelastic Surfaces to a Turbulent Boundary Layer,” *Journal of Applied Mechanics* **53**, pp. 206–212.

13. Gad-el-Hak, M. (1986) "The Use of the Dye-Layer Technique for Unsteady Flow Visualization," *Journal of Fluids Engineering* **108**, pp. 34–38.
14. Gad-el-Hak, M. (1986) "Boundary Layer Interactions with Compliant Coatings: An Overview," feature article in *Applied Mechanics Reviews* **39**, pp. 511–524.
15. Gad-el-Hak, M., and Ho, C.-M. (1986) "Unsteady Vortical Flow Around Three-Dimensional Lifting Surfaces," *AIAA Journal* **24**, pp. 713–721.
16. Gad-el-Hak, M., and Ho, C.-M. (1986) "Unsteady Flow Around an Ogive-Cylinder," *Journal of Aircraft* **23**, pp. 520–528.
17. Gad-el-Hak, M., and Hussain, A.K.M.F. (1986) "Coherent Structures in a Turbulent Boundary Layer. Part 1: Generation of 'Artificial' Bursts," *Physics of Fluids* **29**, pp. 2124–2139.
18. Gad-el-Hak, M. (1987) "Compliant Coatings Research: A Guide to the Experimentalist," *Journal of Fluids and Structures* **1**, pp. 55–70.
19. Gad-el-Hak, M. (1987) "Unsteady Separation on Lifting Surfaces," feature article in *Applied Mechanics Reviews* **40**, pp. 441–453.
20. Gad-el-Hak, M. (1987) "The Water Towing Tank as an Experimental Facility: An Overview," *Experiments in Fluids* **5**, pp. 289–297.
21. Gad-el-Hak, M., and Blackwelder, R.F. (1987) "Control of the Discrete Vortices from a Delta Wing," *AIAA Journal* **25**, pp. 1042–1049.
22. Gad-el-Hak, M., and Blackwelder, R.F. (1987) "Simulation of Large-Eddy Structures in a Turbulent Boundary Layer," *AIAA Journal* **25**, pp. 1207–1215.
23. Riley, J.J., Gad-el-Hak, M., and Metcalfe, R.W. (1988) "Compliant Coatings," *Annual Review of Fluid Mechanics* **20**, pp. 393–420.
24. Gad-el-Hak, M. (1988) "Visualization Techniques for Unsteady Flows: An Overview," *Journal of Fluids Engineering* **110**, pp. 231–243.
25. Gad-el-Hak, M., and Blackwelder, R.F. (1989) "Selective Suction for Controlling Bursting Events in a Boundary Layer," *AIAA Journal* **27**, pp. 308–314.
26. Gad-el-Hak, M. (1989) "Flow Control," feature article in *Applied Mechanics Reviews* **42**, pp. 261–293.
27. Gad-el-Hak, M. (1990) "Large Gradients due to Wall Turbulence," in *Some Unanswered Questions in Fluid Mechanics*, eds. L.M. Trefethen and R.L. Panton, *Applied Mechanics Reviews* **43**, pp. 153–170.
28. Gad-el-Hak, M. (1990) "Control of Low-Speed Airfoil Aerodynamics," *AIAA Journal* **28**, pp. 1537–1552.
29. Xu, J.C., Sen, M., and Gad-el-Hak, M. (1990) "Low-Reynolds Number Flow Over a Rotatable Cylinder-Splitter Plate Body," *Physics of Fluids A* **2**, pp. 1925–1927.
30. Gad-el-Hak, M., and Bushnell, D.M. (1991) "Separation Control: Review," *Journal of Fluids Engineering* **113**, pp. 5–30.
31. Gad-el-Hak, M. (1992) "Splendor of Fluids in Motion," *Progress in Aerospace Sciences* **29**, pp. 81–123.
32. Xu, J.C., Sen, M., and Gad-el-Hak, M. (1993) "Dynamics of a Rotatable Cylinder with Splitter Plate in Uniform Flow," *Journal of Fluids and Structures* **7**, pp. 401–416.
33. Gad-el-Hak, M., and Bandyopadhyay, P.R. (1994) "Questions in Fluid Mechanics: Reynolds Number Effects in Wall-Bounded Flows," *Journal of Fluids Engineering* **116**, pp. 2–3.

34. Zaki, T.G., Sen, M., and Gad-el-Hak, M. (1994) "Numerical and Experimental Investigation of Flow Past a Freely Rotatable Square Cylinder," *Journal of Fluids and Structures* **8**, pp. 555–582.
35. Gad-el-Hak, M., and Bandyopadhyay, P.R. (1994) "Reynolds Number Effects in Wall-Bounded Flows," feature article in *Applied Mechanics Reviews* **47**, pp. 307–365.
36. Gad-el-Hak, M. (1994) "Interactive Control of Turbulent Boundary Layers: A Futuristic Overview," *AIAA Journal* **32**, pp. 1753–1765.
37. Gad-el-Hak, M., and Bandyopadhyay, P.R. (1995) "Field Versus Laboratory Turbulent Boundary Layers," *AIAA Journal* **33**, pp. 361–364.
38. Gad-el-Hak, M. (1995) "Questions in Fluid Mechanics: Stokes' Hypothesis for a Newtonian, Isotropic Fluid," *Journal of Fluids Engineering* **117**, pp. 3–5.
39. Gad-el-Hak, M., and Sen, M. (1996) "Fluid Mechanics in the Next Century," *Applied Mechanics Reviews* **49**, no. 3, pp. III–IV.
40. Bandyopadhyay, P.R., and Gad-el-Hak, M. (1996) "Rotating Gas-Liquid Flows in Finite Cylinders: Sensitivity of Standing Vortices to End Effects," *Experiments in Fluids* **21**, pp. 124–138.
41. Gad-el-Hak, M. (1996) "Modern Developments in Flow Control," *Applied Mechanics Reviews* **49**, pp. 365–379.
42. Bandyopadhyay, P.R., and Gad-el-Hak, M. (1996) "Rotating Gas-Liquid Flows in Finite Cylinders: Sensitivity of Standing Vortices to End Effects," *Naval Underwater Warfare Center: Technical Digest* **2**, August, pp. 82–100.
43. Sen, M., Wajerski, D., and Gad-el-Hak, M. (1996) "A Novel Pump for MEMS Applications," *Journal of Fluids Engineering* **118**, pp. 624–627.
44. Gad-el-Hak, M. (1996) "Compliant Coatings: A Decade of Progress," *Applied Mechanics Reviews* **49**, no. 10, part 2, pp. S147–S157.
45. Gad-el-Hak, M., and Leissa, A.W. (1997) "Introduction to Hans W. Liepmann's retrospective 'Boundary Layer Transition: The Early Days'," *Applied Mechanics Reviews* **50**, no. 2, pp. R1–R4.
46. Sharatchandra, M.C., Sen, M., and Gad-el-Hak, M. (1997) "Navier–Stokes Simulations of a Novel Viscous Pump," *Journal of Fluids Engineering* **119**, pp. 372–382.
47. Maureau, J., Sharatchandra, M.C., Sen, M., and Gad-el-Hak, M. (1997) "Flow and Load Characteristics of Microbearings with Slip," *Journal of Micromechanics and Microengineering* **7**, pp. 55–64.
48. Gad-el-Hak, M., and Leissa, A.W. (1997) "Introduction to George Batchelor's retrospective 'Research as a Life Style'," *Applied Mechanics Reviews* **50**, no. 8, pp. R11–R20.
49. Gad-el-Hak, M. (1997) "The Last Conundrum," *Applied Mechanics Reviews* **50**, no. 12, part 1, pp. 1–2.
50. Sharatchandra, M.C., Sen, M., and Gad-el-Hak, M. (1998) "New Approach to Constrained Shape Optimization Using Genetic Algorithms," *AIAA Journal* **36**, pp. 51–61.
51. Sharatchandra, M.C., Sen, M., and Gad-el-Hak, M. (1998) "Thermal Aspects of a Novel Viscous Pump," *Journal of Heat Transfer* **120**, pp. 99–107.
52. Gad-el-Hak, M. (1998) "Introduction to the Issue," *International Journal of Experimental Heat Transfer, Thermodynamics, and Fluid Mechanics* **16**, pp. 1–2.
53. Gad-el-Hak, M. (1998) "Compliant Coatings: The Simpler Alternative," *International Journal of Experimental Heat Transfer, Thermodynamics, and Fluid Mechanics* **16**, pp. 141–156.

54. Pollard, A., Bonnet, J.-P., and Gad-el-Hak, M. (1998) “Flow Control: Current Status and Future Prospects,” *International Journal of Experimental Heat Transfer, Thermodynamics, and Fluid Mechanics* **16**, pp. 157–164.
55. DeCourtye, D., Sen, M., and Gad-el-Hak, M. (1998) “Analysis of Viscous Micropumps and Microturbines,” *International Journal of Computational Fluid Dynamics* **10**, pp. 13–25.
56. Gad-el-Hak, M. (1998) “Fluid Mechanics from the Beginning to the Third Millennium,” *International Journal of Engineering Education* **14**, pp. 177–185.
57. Löfdahl, L., and Gad-el-Hak, M. (1999) “MEMS Applications in Turbulence and Flow Control,” *Progress in Aerospace Sciences* **35**, pp. 101–203.
58. Gad-el-Hak, M. (1999) “The Fluid Mechanics of Microdevices—The Freeman Scholar Lecture,” *Journal of Fluids Engineering* **121**, pp. 5–33.
59. Löfdahl, L., and Gad-el-Hak, M. (1999) “MEMS-Based Pressure and Shear Stress Sensors,” *Measurement Science and Technology* **10**, pp. 665–686.
60. Gad-el-Hak, M. (2001) “Flow Control: The Future,” *Journal of Aircraft* **38**, pp. 402–418.
61. Gad-el-Hak, M. (2001) “Micro-Air-Vehicles: Can They be Controlled Better?,” *Journal of Aircraft* **38**, pp. 419–429.
62. Gad-el-Hak, M. (2001) “Physique des Écoulements dans les MEMS,” *Mécanique et Industries* **2**, pp. 313–341.
63. Gad-el-Hak, M. (2002) “Compliant Coatings for Drag Reduction,” *Progress in Aerospace Sciences* **38**, pp. 77–99.
64. Stein, C.F., Johansson, P., Bergh, J., Löfdahl, L., Sen, M., and Gad-el-Hak, M. (2002) “An Analytical Asymptotic Solution to a Conjugate Heat Transfer Problem,” *International Journal of Heat and Mass Transfer* **45**, pp. 2485–2500.
65. Hamadiche, M., and Gad-el-Hak, M. (2002) “Temporal Stability of Flow through Viscoelastic Tubes,” *Journal of Fluids and Structures* **16**, pp. 331–359.
66. Gad-el-Hak, M. (2002) “Flow Physics in Microdevices,” *Mechanics* **31**, no. 9/10, pp. XV–XXIX.
67. Buschmann, M.H., and Gad-el-Hak, M. (2003) “Generalized Logarithmic Law and Its Consequences,” *AIAA Journal* **41**, pp. 40–48.
68. Buschmann, M.H., and Gad-el-Hak, M. (2003) “Debate Concerning the Mean-Velocity Profile of a Turbulent Boundary Layer,” *AIAA Journal* **41**, pp. 565–572.
69. Gad-el-Hak, M. (2003) “Comments on ‘Critical View on New Results in Micro-Fluid Mechanics’,” *International Journal of Heat and Mass Transfer* **46**, pp. 3941–3945.
70. Gad-el-Hak, M. (2004) “Publish or Perish—An Ailing Enterprise?,” *Physics Today* **57**, March, pp. 61–62.
71. Hamadiche, M., and Gad-el-Hak, M. (2004) “Spatiotemporal Stability of Flow Through Collapsible, Viscoelastic Tubes,” *AIAA Journal* **42**, pp. 772–786.
72. Gad-el-Hak, M. (2004) “Publish or Perish—An Ailing Enterprise?,” reprinted in *Mechanics* **33**, no. 3/4, pp. 14–16.
73. Gad-el-Hak, M. (2004) “Publish or Perish—An Ailing Enterprise?,” translated into Japanese in *Parity* **19**, no. 9, pp. 48–51.

74. Gad-el-Hak, M. (2004) “Transport Phenomena in Microdevices,” *Zeitschrift für Angewandte Mathematik und Mechanik (ZAMM)* **84**, pp. 494–498.
75. Buschmann, M.H., and Gad-el-Hak, M. (2004) “Comments on ‘Evaluating the Law of the Wall in Two-Dimensional Fully-Developed Turbulent Channel Flows’,” *Physics of Fluids* **16**, pp. 3507–3508.
76. Speich, J.E., McLeskey, J.T., Jr., Richardson, J.S., and Gad-el-Hak, M. (2004) “The Experiential Engineering Library,” *International Journal of Engineering Education* **20**, pp. 1022–1033.
77. Buschmann, M.H., and Gad-el-Hak, M. (2005) “New Mixing-Length Approach for the Mean Velocity Profile of Turbulent Boundary Layers,” *Journal of Fluids Engineering* **127**, pp. 393–396.
78. Gad-el-Hak, M. (2005) “Publish or Perish—An Ailing Enterprise?,” translated into the Czech language in *Pokroky matematiky, fyziky a astronomie* **50**, no. 4, pp. 321–325.
79. Gad-el-Hak, M. (2005) “Preface: Transport Phenomena in Micro- and Nanodevices,” *Physics of Fluids* **17**, p. 100501.
80. Gad-el-Hak, M. (2005) “Liquids: The Holy Grail of Microfluidic Modeling,” *Physics of Fluids* **17**, pp. 100612.1–100612.13.
81. Gad-el-Hak, M. (2005) “Differences Between Liquid and Gas Transport at the Microscale,” *Bulletin of the Polish Academy of Sciences* **53**, pp. 301–316.
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83. Gad-el-Hak, M. (2006) “Gas and Liquid Transport at the Microscale,” *Heat Transfer Engineering* **27**, pp. 13–29.
84. Gad-el-Hak, M. (2006) “Akişkanlar: Mikro-Akişkanlar Modellemesinin Kutsal Kâsesi,” in Turkish, translated from “Liquids: The Holy Grail of Microfluidic Modeling,” *Mühendis ve Makina (Engineer and Machinery)* **47**, no. 556, pp. 51–96.
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86. Buschmann, M.H., and Gad-el-Hak, M. (2006) “Structure of the Canonical Turbulent Wall-Bounded Flow,” *AIAA Journal* **44**, pp. 2500–2503.
87. Xi, J., Si, X., Longest, P.W., and Gad-el-Hak, M. (2007) “Curvature Law of the Wall for Swirling Axial Flows in Rotating Machinery,” *Journal of Fluids Engineering* **129**, pp. 169–178.
88. Buschmann, M.H., and Gad-el-Hak, M. (2007) “Scaling of the Mean-Velocity Profiles of the Canonical Turbulent Wall-Bounded Flow,” *Progress in Aerospace Sciences* **42**, pp. 419–467.
89. Buschmann, M.H., and Gad-el-Hak, M. (2007) “Turbulent Boundary Layers: Reality and Myth,” *International Journal of Computing Science and Mathematics* **1**, pp. 159–176.
90. Gad-el-Hak, M. (2007) “Very, Very Small Is Beautiful,” *The Free Lance-Star*, 16 December, pp. D1–D3.
91. Oualli, H., Hanchi, S., Bouabdallah, A., Askoviç, R., and Gad-el-Hak, M. (2008) “Interaction Between the Near Wake and the Cross-Section Variation of a Circular Cylinder in Uniform Flow,” *Experiments in Fluids* **44**, pp. 807–818.
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93. Gad-el-Hak, M. (2008) “Large-Scale Disasters as Dynamical Systems,” *Mechanical Engineering* , web exclusive, August.

94. Gad-el-Hak, M. (2008) “Energy: It’s Time for Serious Talk,” *The Free Lance-Star*, 17 August, pp. D1–D3.
95. Buschmann, M.H., and Gad-el-Hak, M. (2009) “Evidence of Non-Logarithmic Behavior of Turbulent Channel and Pipe Flow,” *AIAA Journal* **47**, pp. 535–541.
96. Gad-el-Hak, M. (2009) “The Art and Science of Large-Scale Disasters,” *Bulletin of the Polish Academy of Sciences* **57**, pp. 3–34.
97. Hamadiche, M., Kizilova, N., and Gad-el-Hak, M. (2009) “Suppression of Absolute Instabilities in the Flow Inside a Compliant Tube,” *Communications in Numerical Methods in Engineering* **25**, pp. 505–531.
98. Buschmann, M.H., Indinger, T., and Gad-el-Hak, M. (2009) “Near-Wall Behavior of Turbulent Wall-Bounded Flows,” *International Journal of Heat and Fluid Flow* **30**, pp. 993–1006.
99. Gad-el-Hak, M. (2009) “Flow Control and the Energy Crisis,” *International Journal of Flow Control* **1**, pp. 175–178.
100. Kizilova, N., Hamadiche, M., and Gad-el-Hak, M. (2009) “Flow in Compliant Tubes: Control and Stabilization by Multilayered Coatings,” *International Journal of Flow Control* **1**, no. 3.
101. Buschmann, M.H., and Gad-el-Hak, M. (2009) “Kolmogorov Scaling of Turbulent Flow in the Vicinity of the Wall,” *Physica D: Nonlinear Phenomena*, doi:10.1016/j.physd.2009.07.006.
102. Gad-el-Hak, M. (2009) “DNS of Turbulent Boundary Layers: the Breakthrough That Opened a Can of Worms,” *CFD Letters*, in press.
103. Gad-el-Hak, M. (2010) “Facets and Scope of Large-Scale Disasters,” *Natural Hazards Review* **11**, no. 1.
104. Speich, J.E., McLeskey, J.T., Jr., and Gad-el-Hak, M. (2010) “Curriculum Development for a Nuclear Track in Mechanical Engineering,” submitted to *International Journal of Engineering Education*.
105. Trimble, S.W., Grody, W.W., and Gad-el-Hak, M. (2010) “The Glut of Academic Publishing: A Call for a New Culture,” submitted to *Academic Questions*.
106. Gad-el-Hak, M., and Buschmann, M.H. (2010) “Turbulent Boundary Layers: Is the Wall Falling or Merely Wobbling?,” submitted to *Physics of Fluids*.
107. Bhadauria, R., Pidaparti, R.M., and Gad-el-Hak, M. (2010) “Optimization of a Peristaltic Micropump with Multiple Moving Actuators,” submitted to *Journal of Microelectronics and Electronic Packaging*.