

IUTAM Symposia Proceedings Archive

2015

- 15-2 *IUTAM Symposium on Ductile Failure and Localization* (Paris, France, March 17-20, 2015). The Proceedings of the Symposium edited by Mohr, D. and Ravi-Chandar, K. have been published as a special issue of the [International Journal of Fracture, Volume 200, Issue 1-2, 2016](#)
- 15-3 *IUTAM Symposium on Growing Solids* (Moscow, Russia, June 23-27, 2015). The Proceedings of the Symposium edited by A.V. Manzhirov, H. Altenbach and N. Gupta have been published by Elsevier, 2017, as the 23rd issue of the IUTAM e-Procedia series. [Procedia IUTAM Volume 23](#)
- 15-4 *IUTAM Symposium on Analytical Methods in Nonlinear Dynamics* (Frankfurt, Germany, June 6-9, 2015). The Proceedings of the Symposium edited by Hagedorn, P. and Clerkin, E. have been published by Elsevier, 2016, as the 19th issue of the IUTAM e-Procedia series. [Procedia IUTAM Volume 19](#)

2014

- 14-1 *IUTAM Symposium on Transition and Turbulence in the Flow through Deformable Tubes and Channels* (Bangalore, India, January 20-24, 2014). The Proceedings of the Symposium edited by Shankar, V. and Kumaran, V. have been published as a special issue of Sadhana, Volume 40, Issue 3, May 2015.
- 14-2 *IUTAM Symposium on Mechanics of Soft Active Materials* (Haifa, Israel, May 12-15, 2014). The Proceedings of the Symposium edited by Volokh, K. and Jabareen, M. have been published by Elsevier, 2015, as the 12th issue of the IUTAM e-Procedia series. [Procedia IUTAM Volume 12](#)

- 14-3 *IUTAM Symposium on Connecting Multiscale Mechanics to Complex Material Design* (Evanston, USA, May 13-16, 2014).
The Proceedings of the Symposium edited by Liu, W.K., Fish, J., Chen, J.S. and Camanho, P.P. have been published as a special issue of Computational Mechanics, Volume 57, Issue 3, March 2016.
- 14-4 *IUTAM Symposium on Micromechanics of Defects in Solids* (Seville, Spain, June 9-13, 2014).
The Proceedings of the Symposium edited by Ariza, P., Ortiz, M. and Tvergaard, V. have been published as a special issue of Mechanics of Materials, Volume 90, Pages 1-268, November 2015.
- 14-5 *IUTAM Symposium on Dynamical Analysis of Multibody Systems with Design Uncertainties* (Stuttgart, Germany, June 9-13, 2014).
The Proceedings of the Symposium edited by Hanss, M. have been published by Elsevier, 2015, as the 13th issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 13**
- 14-7 *IUTAM Symposium on Dynamics of Capsules, Vesicles and Cells in Flow* (Compiègne, France, July 15-18, 2014).
The Proceedings of the Symposium edited by Barthès-Biesel, D., Blyth, M.G. and Salsac, A.-V. have been published by Elsevier, 2015, as the 16th issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 16**
- 14-8 *IUTAM Symposium on Innovative Numerical Approaches for Multi-Field and Multi-Scale Problems* (Burg Schnellenberg, Germany, September 1-4, 2014).
The Proceedings of the Symposium edited by Weinberg, K. and Pandolfi, A. have been published in the Lecture Notes in Applied and Computational Mechanics series by Springer, 2016. ISBN 978-3-319-39021-5
- 14-9 *IUTAM Symposium on Complexity of Nonlinear Waves* (Tallinn, Estonia, September 8-12, 2014).
The Proceedings of the Symposium edited by Salupere, A. and Maugin, G.A. have been

published as a special issue of the Proceedings of the Estonian Academy of Sciences, Volume 64, Issue 3S, 2015.

- 14-10 *IUTAM Symposium on Multiphase Flows with Phase Change: Challenges and Opportunities* (Hyderabad, India, December 8-11, 2014).
The Proceedings of the Symposium edited by Sahu, K.C. have been published by Elsevier, 2015, as the 15th issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 15**
- 14-11 *IUTAM Symposium on Advances in Computation, Modeling and Control of Transitional and Turbulent Flows* (Goa, India, December 15-18, 2014).
The Proceedings of the Symposium edited by Sengupta, T.K, Lele, S.K., Sreenivasan, K.R. and Davidson, P.A. have been published by World Scientific, 2016. ISBN 978-981-4635-15-8
- IUTAM-ABCM Symposium on Laminar Turbulent Transition* (Rio de Janeiro, Brazil, September 8-12, 2014).
The Proceedings of the Symposium edited by Medeiros, M.A.F. and Meneghini, J.R. have been published by Elsevier, 2015, as the 14th issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 14**
- 2013**
- 13-1 *IUTAM Symposium on Vortex Dynamics: Formation, Structure and Function* (Fukuoka, Japan, March 10-14, 2013). The Proceedings of the Symposium edited by Y. Fukumoto have been published as a special issue of Fluid Dynamics Research, Volume 46, No. 3, 2014.
- 13-2 *IUTAM Symposium on Nonlinear Interfacial Wave Phenomena from the micro- to the macro-scale* (Limassol, Cyprus, April 14-18, 2013). The Proceedings of the Symposium edited by Papageorgiou D.T., Smyrlis, Y.S., Vanden-Broeck J.-M. and Christodoulides, P. have been published by Elsevier, 2014, as the eleventh issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 11**

- 13-3 *IUTAM Symposium on Recent Development of Experimental Techniques under Impact Loading* (Xi'an, China, May 6-10, 2013). The Proceedings of the Symposium edited by Yulong Li and Han Zhao have been published as a special issue of the International Journal of Impact Engineering, Volume 79, 2015.
- 13-4 *IUTAM Symposium on Materials and Interfaces under High Strain Rate and Large Deformation* (Metz, France, June 17-21, 2013). The Proceedings of the Symposium edited by S. Mercier, J.F. Molinari and D. Rittel have been published as a special issue of Mechanics of Materials, Volume 80, Part B, pp 163-374, 2015.
- 13-5 *IUTAM Symposium on Multiscale Modeling and Uncertainty Quantification of Materials and Structures* (Santorini Island, Greece, September 9-11, 2013). The Proceedings of the Symposium edited by M. Papadarakakis and G. Stefanou have been published by Springer, 2014. ISBN 978-3-319-06330-0
- 13-6 *IUTAM Symposium on the Dynamics of Extreme Events Influenced by Climate Change* (Lanzhou, China, September 23-25, 2013). The Proceedings of the Symposium will be published by Elsevier, 2015, as the seventeenth issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 17**

2012

- 12-1 *IUTAM Symposium on Mobile Particulate Systems: Kinematics, Rheology and Complex Phenomena* (Bangalore, India, January 23-27, 2012). The Proceedings of the Symposium edited by P.R. Nott, R.H. Davis, M. Reeks, D. Saintillan and S. Sundaresan have been published as a special issue of Physics of Fluids, Volume 25, Issue 7, July 2013.
- 12-2 *IUTAM Symposium on Advanced Materials Modelling for Structures* (Paris, France, April 23-27, 2012). The Proceedings of the Symposium edited by Altenbach, Holm and Kruch, Serge have been published by Springer, 2013. ISBN 978-3-642-35167-9

- 12-3 *IUTAM Symposium on From Mechanical to Biological Systems: an Integrated Approach* (Izhvesk, Russia, June 5-10, 2012). The Proceedings of the Symposium edited by V.V. Kozlov and A.V. Borisov have been published as a special issue of *Regular and Chaotic Dynamics*, Volume 18, No. 1-2, 2013.
- 12-4 *IUTAM Symposium on Waves in Fluids: Effects of Nonlinearity, Rotation, Stratification and Dissipation* (Moscow, Russia, June 18-22, 2012). The Proceedings of the Symposium edited by Y. Chashechkin and D. Dritschel have been published by Elsevier, 2013, as the eighth issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 8**
- 12-5 *IUTAM Symposium on Multiscale Problems in Stochastic Mechanics* (Karlsruhe, Germany, June 25-28, 2012). The Proceedings of the Symposium edited by C. Proppe and J.-M. Bourinet have been published by Elsevier, 2013, as the sixth issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 6**
- 12-6 *IUTAM Symposium on Fracture Phenomena in Nature and Technology* (Brescia, Italy, July 1-5, 2012). The Proceedings of the Symposium edited by D. Bigoni, A. Carini, M. Gei and A. Salvadori have been published as a Special Issue of the *International Journal of Fracture*, Volume 184, Issues 1-2, November 2013, and by Springer, 2014. ISBN 978-3-319-04396-8.
- 12-7 *IUTAM Symposium on Understanding Common Aspects of Extreme Events in Fluids* (Dublin, Ireland, July 2-6, 2012) The Proceedings of the Symposium edited by M. Bustamante, A.C. Newell, R.M. Kerr and M. Tsubota have been published by Elsevier, 2013, as the ninth issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 9**
- 12-8 *IUTAM Symposium on Topological Fluid Dynamics: Theory and Applications* (Cambridge, UK, July 23-27, 2012) The Proceedings of the Symposium edited by H.K. Moffatt, K. Bajer and Y. Kimura have been published by Elsevier, 2013, as the seventh issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 7**

12-10 *IUTAM Symposium on Particle Methods in Fluid Mechanics* (Lyngby, Denmark, October 15-17, 2012). The Proceedings of the Symposium will be published by Elsevier, as the eighteenth issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 18**

2011

11-1 *IUTAM Symposium on Mechanics of Liquid and Solid Foams* (Austin, USA, May 8-13, 2011). The Proceedings of the Symposium edited by Kyriakides, Stelios and Kraynik, Andrew, have been published by Elsevier, as a special issue of the International Journal of Solids and Structures, 2012, and of the Journal of Rheology, Volume 56, Issue 3, Pages i-665, May 2012.

11-2 *IUTAM Symposium on Linking Scales in Computations: From Microstructure to Macro-scale Properties* (Pensacola, USA, May 17-19, 2011) The Proceedings of the Symposium edited by Cazacu, Oana, have been published by Elsevier, 2012, as the third issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 3**

11-3 *IUTAM Symposium on Human Body Dynamics* (Waterloo, Canada, June 5-8, 2011) The Proceedings of the Symposium edited by McPhee, John and Kovecses, Jozsef, have been published by Elsevier, 2011, as the second issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 2**

11-4 *IUTAM Symposium on Full-field Measurements and Identification in Solid Mechanics* (Cachan, France, July 4-8, 2011) The Proceedings of the Symposium edited by Hild, F. and Espinosa, H.D., have been published by Elsevier, 2011, as the fourth issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 4**

11-5 *IUTAM Symposium on Impact Biomechanics in Sport* (Dublin, Ireland, July 7-9, 2011). The Proceedings of the Symposium edited by Michael Gilchrist and Manuel Forero Rueda have been published as a special issue of the Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, Volume 226, No 3-4, 2012.

- 11-6 *IUTAM Symposium on Computer Models in Biomechanics* (Stanford University, USA, August 29 – September 02, 2011). The Proceedings of the Symposium edited by Holzapfel, Gerhard A. and Kuhl, Ellen have been published by Springer, 2013. ISBN 978-94-007-5464-5
- 11-7 *IUTAM Symposium on 50 Years of Chaos: Applied and Theoretical* (Kyoto, Japan, November 28 – December 2, 2011) The Proceedings of the Symposium edited by Hikiyama, Takashi have been published by Elsevier, 2012, as the fifth issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 5**
- 11-8 *IUTAM Symposium on Bluff Body Flows* (Kanpur, India, December 12-16, 2011) The Proceedings of the Symposium edited by Mittal, Sanjay and Biswas, Gautam have been published as a special issue of the Journal of Fluids and Structures, Volume 41, Pages 1-186, August 2013.

2010

- 10-1 *IUTAM Symposium on Computational Aero-Acoustics for Aircraft Noise Prediction* (Southampton, UK, March 29 – 31, 2010) The Proceedings of the Symposium edited by Astley, Jeremy and Gabard, Gwenael have been published by Elsevier, 2011, as the first issue of the IUTAM e-Procedia series. **Procedia IUTAM Volume 1**
- 10-2 *IUTAM Symposium on Nonlinear Stochastic Dynamics and Control* (Hangzhou, China, May 10-14, 2010). The Proceedings of the Symposium edited by Zhu, W.Q., Lin, Y.K. and Cai, G. Q. have been published by Springer, 2011. ISBN 978-94-007-0731-3
- 10-3 *IUTAM Symposium on Dynamics Modeling and Interaction Control in Virtual and Real Environments* (Budapest, Hungary, June 7-11, 2010). The Proceedings of the Symposium edited by Stépán, Gábor, Kovács, László L. and Tóth, András have been published by Springer, 2010. ISBN 978-94-007-1642-1
- 10-4 *IUTAM Symposium on Bluff Body Wakes and Vortex-Induced Vibrations* (Capri, Italy, June 22-25, 2010). The Proceedings of the Symposium edited by Leweke, Thomas and Williamson,

Charles, have been published by Elsevier, as a special issue of the Journal of Fluids and Structures, Volume 27, Issues 5-6, Pages 637-884, July-August 2011.

- 10-5 *IUTAM Symposium on Nonlinear Dynamics for Advanced Technologies and Engineering Design (NDATED)* (Aberdeen, UK, July 27-30, 2010). The Proceedings of the Symposium edited by Marian Wiercigroch and Giuseppe Rega have been published by Springer, 2013. ISBN 978-94-007-5742-4
- 10-6 *IUTAM Symposium on Surface Effects in the Mechanics of Nanomaterials and Heterostructures* (Beijing, China, August 8-12, 2010). The Proceedings of the Symposium edited by Cocks, Alan and Wang, Jianxiang, have been published by Springer, 2012. ISBN 978-94-007-4910-8
- 10-7 *IUTAM Symposium on Human Movement Analysis and Simulation* (Leuven, Belgium, September 13-15, 2010). The Proceedings of the Symposium edited by Jonkers, Ilse and Vander Sloten, Jos, have been published online, 2010, www.mech.kuleuven.be/iutam2010/IUTAM_proceedings/index.html ISBN 978-94-6018-247-1

2009

- 09-1 *IUTAM Symposium on Dynamic Fracture and Fragmentation* (Austin, USA, March 8-12, 2009). The Proceedings of the Symposium have been published as a special issue of the International Journal of Fracture (Publisher: Springer), 2010 and by Springer (Ravi-Chandar, Krishnaswamy; Vogler, Tracy J. (Eds.) 2010). ISBN 978-90-481-9759-0
- 09-2 *IUTAM Symposium on Emerging Trends in Rotor Dynamics* (New Delhi, India, March 23 – March 26, 2009). The Proceedings of the Symposium edited by Gupta, K. have been published by Springer, 2011. ISBN 978-94-007-0019-2

- 09-3 *IUTAM Symposium on Recent Advances of Acoustic Waves in Solids* (Taipei, Taiwan, May 25-28, 2009). The Proceedings of the Symposium edited by Wu, Tsung-Tsong and Ma, Chien-Ching have been published by Springer, 2010. ISBN 978-90-481-9892-4
- 09-4 *IUTAM Symposium on Laminar-Turbulent Transition* (Stockholm, Sweden, 2009). The Proceedings of the Symposium edited by Schlatter, Philipp and Henningson, Dan S. have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2010. ISBN: 978-90-481-3722-0
- 09-5 *IUTAM Symposium on the Vibration Analysis of Structures with Uncertainties* (St. Petersburg, Russia, July 5-9, 2009). The Proceedings of the Symposium edited by Belyaev, Alexander K. and Langley, Robin S. have been published by Springer, 2011. ISBN 978-94-007-0288-2
- 09-6 *IUTAM Symposium on The Physics of Wall-Bounded Turbulent Flows on Rough Walls* (Cambridge, UK, July 7-9, 2009). The Proceedings of the Symposium edited by Nickels, T. B. have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2010. ISBN: 978-90-481-9630-2
- 09-7 *IUTAM Symposium on Multiscale Modelling of Fatigue, Damage and Fracture in Smart Materials* (Freiberg, Germany, September 1-4, 2009). The Proceedings of the Symposium edited by Kuna, Meinhard and Ricoeur, Andreas have been published by Springer, 2011. ISBN 978-90-481-9886-3
- 09-8 *IUTAM Symposium on Mathematical Modeling and Physical Instances of Granular Flows* (Reggio Calabria, Italy, July 7-9, 2009). The Proceedings of the Symposium edited by Joe Goddard, J.T. Jenkins and P. Giovine have been published as AIP Conference Proceedings 1227, April 2010. ISBN 978-0-7354-0772-5

2008

- 08-1 *IUTAM Symposium on Theoretical, Computational and Modelling Aspects of Inelastic Media* (Cape Town, South Africa, January 14-18, 2008). The Proceedings of the Symposium edited by Daya

Reddy have been published by Springer Academic Publishers, The Netherlands, 2008. ISBN: 978-1-4020-9089-9

- 08-2 *IUTAM Symposium on on Modelling Nanomaterials and Nanosystems* (Aalborg, Denmark, 19-22 May, 2008). The Proceedings of the Symposium edited by Pyrz, R. and Rauhe, Jens C. have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2009. ISBN: 978-1-4020-9556-6
- 08-3 *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics* (Woods Hole, Mass., USA, June 18-21, 2008). The Proceedings of the Symposium edited by Garikipati, Krishna and Arruda, Ellen M. have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2010. ISBN: 978-90-481-3347-5
- 08-4 *IUTAM Symposium on Variational Concepts with Applications to the Mechanics of Materials* (Bochum, Germany, September 22-26, 2008). The Proceedings of the Symposium edited by Hackl, Klaus have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2010. ISBN: 978-90-481-9194-9
- 08-5 *IUTAM Symposium on 150 Years of Vortex Dynamics* (Technical University of Denmark, October 12-16, 2008). The Proceedings of the Symposium edited by Aref, Hassan have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2010. ISBN: 978-90-481-8583-2
- 08-6 *IUTAM Symposium on Progress in the Theory and Numerics of Configurational Mechanics* (Erlangen, Germany, October 20-24, 2008). The Proceedings of the Symposium edited by Steinmann, Paul have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2009. ISBN: 978-90-481-3446-5
- 08-7 *IUTAM Symposium on Turbulence in the Atmosphere and Oceans* (Cambridge, UK, December 8 ? 12, 2008). The Proceedings of the Symposium edited by Dritschel, David have been published by Springer, 2010. ISBN: 978-94-007-0359-9

08-8 *IUTAM Symposium on Multi-Functional Material Structures and Systems* (Bangalore, India, December 10-12, 2008). The Proceedings of the Symposium edited by Dattaguru, B., Gopalakrishnan, Srinivasan and Aatre, V. K. have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2010. ISBN: 978-90-481-3770-1

2007

07-1 *IUTAM Symposium on Relation of Shell, Plate, Beam and 3D Models* (Tbilisi, Georgia, April 23-28, 2007). The Proceedings of the Symposium edited by Jaiani, George; Podio-Guidugli, Paolo, have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2008. ISBN 978-1-4020-8773-8.

07-2 *IUTAM Symposium Relation on Recent Advances in Multiphase Flows: Numerical and Experimental* (Istanbul, Turkey, June 11-14, 2007). The Proceedings of the Symposium have been published in a regular issue of *Physics of Fluids*, together with selected papers from the meeting, all of which will have gone through the standard reviewing process of that journal.

07-3 *IUTAM Symposium Relation on Unsteady Separated Flows and their Control* (Corfu, Greece, June 18-22, 2007). The Proceedings of the Symposium are under editing by Springer. A dedicated volume of a selection of the papers presented at this symposium has been published in the Journal « *Fluids & Structures* ».

07-4 *IUTAM Symposium Relation on Scaling in Solid Mechanics* (Cardiff, UK, June 25-29, 2007). The Proceedings of the Symposium edited by Borodich, F., have been published by Springer Academic Publishers, Dordrecht, The Netherlands, October 2008. ISBN 978-1-4020-9032-5.

07-5 *IUTAM Symposium Relation on Fluid-Structure Interaction in Ocean Engineering* (Hamburg, Germany, July 23-26, 2007). The Proceedings of the Symposium edited by Edwin Kreuzer, have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2008. ISBN 978-1-4020-8629-8

- 07-6 *IUTAM Symposium Relation on Swelling and Shrinking of Porous Materials: From Colloid Science to Poro-Mechanics* (Petrópolis, Brazil, August 6-10, 2007). The Proceedings of the Symposium were published containing the abstracts of the lectures.
- 07-7 *IUTAM Symposium Relation on Advances in Micro- and Nanofluidics* (Dresden, Germany, September 6-8, 2007). The Proceedings of the symposium have been published by Springer. Editors are N. A. Adams, X. Y. Hu and M. Ellero.
- 07-8 *IUTAM Symposium Relation on Mechanical Properties of Cellular Materials* (Cachan, France, September 17-20, 2007). The Proceedings of the symposium have been published by Springer.
- 07-9 *IUTAM Symposium Relation on Multi-Scale Plasticity of Crystalline Materials* (Eindhoven, Netherlands, November 05-09, 2007). The Proceedings of the symposium have been published as a special issue in the Philosophical Magazine (Publisher: Taylor & Francis).

2006

- 06-1 *IUTAM Symposium on Multiscale Problems in Multibody System Contacts* (Stuttgart, Germany, February 20-23, 2006). The Proceedings of the Symposium edited by Peter Eberhard, have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2006. ISBN 978-1-4020-5980-3.
- 06-2 *IUTAM Symposium on Interactions for Dispersed Systems in Newtonian and Viscoelastic Fluids* (Guanajuato, Mexico, March 26-31, 2006). A report on the Symposium was published and appeared in *Physics of Fluids*, Vol 18, 121501-1, 2006.
- 06-3 *IUTAM Symposium on Plasticity at the Micron Scale* (Lyngby, Denmark, May 21 – May 25, 2006). The Proceedings of the Symposium edited by V. Tvergaard, have been published by IOP Publishing, in a special issue of *Modelling and Simulation in Materials Science and Engineering*, Volume 15, number 1, 2007, ISSN 0965-0393.

- 06-4 *IUTAM Symposium on Hamiltonian Dynamics, Vortex Structures, Turbulence* (Moscow, Russia, August 25-30, 2006). The Proceedings of the Symposium edited by Borisov, A.V., Kozlov, V.V. et.al., will be published by Springer Academic Publishers, Dordrecht, The Netherlands, in November 2007. ISBN 978-1-4020-6743-3
- 06-5 *IUTAM Symposium on Discretization Methods for Evolving Discontinuities* (Lyon, France, September 04-07, 2006). The Proceedings of the Symposium edited by Combescure, Alain, Borst, René de, Belytschko, Ted, have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2007. ISBN 978-1-4020-6529-3
- 06-6 *IUTAM Symposium on Computational Physics and new Perspectives in Turbulence* (Nagoya, Japan, September 11-14, 2006). The Proceedings of the Symposium will be published by Springer Academic Publishers in November 2007. ISBN 978-1-4020-6471-5
- 06-7 *IUTAM Symposium on Dynamics and Control of Nonlinear Systems with Uncertainty* (Nanjing, China, September 18-22, 2006). The Proceedings of the Symposium edited by Hu, H.Y., Kreuzer E.J., have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2007. ISBN 978-1-4020-6331-2
- 06-8 *IUTAM Symposium on Flow Control with Mems* (London, UK, September 19-22, 2006). The Proceedings of the Symposium edited by Morrison, J.F., Birch, D.M., Lavoie, P., will be published by Springer Academic Publishers in November 2007. ISBN 978-1-4020-6857-7
- 06-9 *IUTAM Symposium on Computational Contact Mechanics* (Hannover, Germany, November 05-09, 2006). The Proceedings of the Symposium edited by Wriggers, Peter, Neckenhorst, Udo have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2007. ISBN 978-1-4020-6404-3

2005

- 05-1 *IUTAM Symposium on Multiscale Modelling of Damage and Fracture Processes in Composite Materials* (Kazimierz Dolny, Poland 23-27 May, 2005). The Proceedings of the Symposium edited by T. Sadowski, have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2006. ISBN 978-1-4020-4565-3.
- 05-2 *IUTAM Symposium on IUTAM Symposium on Mechanical Behavior and Micro-mechanics of Nanostructured Materials* (Beijing, China 27-30 June 2005). The Proceedings of the Symposium edited by Y.L. Bai, Q.S. Zheng and Y.G. Wei have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2007. ISBN 978-1-4020-5623-9.
- 05-3 *IUTAM Symposium on Impact Biomechanics: From Fundamental Insights to Applications* (Dublin, Ireland 11-15 July, 2005). The Proceedings of the Symposium edited by M.D. Gilchrist, have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2005. ISBN 1-4020-3795-3 (HB) and ISBN 978-1-4020-3795-5 (HB).
- 05-4 *IUTAM Symposium on Vibration Control of Nonlinear Mechanisms and Structures* (Munich, Germany 18-22 July, 2005). The Proceedings of the Symposium edited by H. Ulbrich and W. Gnathner, have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2005. ISBN-10 1-4020-4160-8 (HB) and ISBN 978-1-4020-4160-0 (HB).
- 05-5 *IUTAM Symposium on Topological Design Optimization of Structures, Machines and Materials – Status and Perspectives* (Aalborg and Lyngby, Denmark, 26-29 October, 2005). The Proceedings of the Symposium edited by M.P. Bendsøe, N. Olhoff and O. Sigmund, have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2006. ISBN 978-1-4020-4729-9.
- 2004**
- 04-1 *IUTAM Symposium on Size Effects on Material and Structural Behavior at Micron- and Nano-Scales* (Hong Kong, China, 30 May-4 June, 2004). The Proceedings of the Symposium edited by Q.P. Sun and P. Tong, have been published by Springer, Dordrecht, The Netherlands in 2006. ISBN 1-4020-4945-5

- 04-2 *IUTAM Symposium on Mechanics of Biological Tissue* (Graz, Austria, 27 June-2 July, 2004)The Proceedings of the Symposium edited by Holzapfel G.A., Ogden, R.W., have been published by Springer Academic Publishers, Dordrecht, The Netherlands, 2006.ISBN 978-3-540-25194-1
- 04-3 *IUTAM Symposium on Non-Uniqueness of Solutions to the Navier-Stokes equations and their Connection with Laminar-Turbulent Transition* (Manchester, UK, 9-11 August, 2004)The Proceedings of the Symposium edited by T. Mullin and R.R. Kerswell, have been published by Springer, Dordrecht, The Netherlands in 2005.ISBN 1-4020-4048-2
- 04-4 *IUTAM Symposium on One Hundred Years of Boundary Layer Research* (Göttingen, Germany, 12-14 August, 2004).The Proceedings of the Symposium edited by G.E.A. Meier, K.R. Sreenivasan et.al, have been published by Springer, Dordrecht, The Netherlands in 2006.ISBN 1-4020-4149-7
- 04-5 *IUTAM Symposium on Elastohydrodynamics and Microelastohydrodynamics* (Cardiff, UK, 1-3 September, 2004)The Proceedings of the Symposium edited by R.W. Snidle and H.P. Evans, have been published by Springer, Dordrecht, The Netherlands in 2006.ISBN 1-4020-4532-8
- 04-6 *IUTAM Symposium on Mechanics and Reliability of Actuating Materials* (Beijing, China, 1-3 September, 2004)The Proceedings of the Symposium edited by W. Yang, have been published by Springer, Dordrecht, The Netherlands in 2005.ISBN 1-4020-4130-6
- 04-7 *IUTAM Symposium on Computational Approaches to Multiphase Flow* (Argonne, Illinois, USA, 4-7 October, 2004)The Proceedings of the Symposium edited by S. Balachandar and A. Prosperetti, have been published by Springer, Dordrecht, The Netherlands in 2006.ISBN 1-4020-4976-7
- 04-8 *IUTAM Symposium on Elementary Vortices and Coherent Structures: Significance in Turbulence Dynamics* (Kyoto, Japan, 26-28 October, 2004)The Proceedings of the Symposium edited by Kida, Shigea, have been published by Springer, Dordrecht, The Netherlands in 2005.ISBN 1-4020-4180-2

04-9 *IUTAM Symposium on Laminar-Turbulent Transition* (Bangalore, India, 13-17 December, 2004)The Proceedings of the Symposium edited by Govindarajan, Rama, have been published by Springer, Dordrecht, The Netherlands in 2006.ISBN 1-4020-3459-8

2003

03-1 *IUTAM Symposium on Mechanics of Physicochemical and Electromechanical Interactions in Porous Media* (Kerkrade, The Netherlands 18-23 May 2003).The Proceedings of the Symposium edited by J.M. Huyghe, P.A.C. Raats and S.C. Cowin, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2005.
ISBN 978-1-4020-3864-8.

03-2 *IUTAM Symposium on Integrated Modeling of Fully Coupled Fluid-Structure Interactions* (Rutgers, N.J., USA 02-06 June 2003).The Proceedings of the Symposium edited by Haym Benaroya and Thomothy Wei, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2003.

ISBN 1-4020-1806-1.

03-3 *IUTAM Symposium on Chaotic Dynamics and Control of Systems and Processes in Mechanics* (Rome, Italy, 08-13 June 2003).The Proceedings of the Symposium edited by G. Rega and F. Vestroni, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands 2005.
ISBN 1-4020-3267-6 (HB) and
ISBN 1-4020-3268-4 (e-book).

03-4 *IUTAM Symposium on Mesoscopic Dynamics of Fracture Process and Materials Strength* (Osaka, Japan, 06-11 July 2003).The Proceedings of the Symposium edited by H. Kitagawa and Y. Shibutani, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2004.

ISBN 1-4020-2037-6 (HB) and
ISBN 1-4020-2111-9 (e-book).

2002

- 02-1 *IUTAM Symposium on Micromechanics of Fluid Suspensions and Solid Composites* (Austin, Texas, USA, 3-5 April 2002). The Proceedings of the Symposium will be published by Kluwer Academic Publishers, Dordrecht, The Netherlands, in a special issue of the Philosophical Transactions: Mathematical, Physical & Engineering Sciences in May 2003
- 02-2 *IUTAM Symposium on Unsteady Separated Flows* (Toulouse, France, 8-12 April 2002). The Proceedings of the Symposium edited by M. Braza, Ch. Hirsch and F. Hussain, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, in a special issue of Flow, Turbulence and Combustion, Volume 71, Nos 1-4, 2003.
ISSN 1386-6184.
- 02-3 *IUTAM Symposium on Dynamics of Advanced Materials and Smart Structures* (Yamagata, Japan, 20-24 May 2002). The Proceedings of the Symposium edited by K. Watanabe and F. Ziegler, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2003.
ISBN 1-4020-1061-3.
- 02-4 *IUTAM Symposium on Asymptotics, Singularities and Homogenisation in Problems of Mechanics* (Liverpool, UK, 8-11 July 2002). The Proceedings of the Symposium edited by A.B. Movchan, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2003.
ISBN 1-4020-1780-4.
- 02-5 *IUTAM Symposium on Complementary Dual Variational Principles in Nonlinear Mechanics* (Shanghai, China, 13-16 August 2002). The Proceedings of the Symposium will be published by Kluwer Academic Publishers, Dordrecht, The Netherlands, in 2003.

- 02-6 *IUTAM Symposium on Nonlinear Stochastic Systems*(Urbana-Champaign, Illinois, USA, 25-31 August 2002).The Proceedings of the Symposium edited by N. Sri Namachchivaya and Y.K. Lin, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2003.
- ISBN 1-4020-1471-6.
- 02-7 *IUTAM Symposium Transsonicum IV* (Göttingen, Germany, 02-06 September 2002).The Proceedings of the Symposium edited by H. Sobieczky, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2003.
- ISBN 1-4020-1608-5.
- 02-8 *IUTAM Symposium on Reynolds Number Scaling in Turbulent Flow*(Princeton, N.J., USA, 11-13 September 2002).The Proceedings of the Symposium edited by A.J. Smits, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2003.
- ISBN 1-4020-1775-8.
- 02-9 *IUTAM Symposium on Evolutionary Methods in Mechanics* (Cracow, Poland, 24-27 September 2002).The Proceedings of the Symposium edited by T. Burczynski and A. Osyczka, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2004.ISBN 1-4020-2266-2 (HB) and ISBN 1-4020-2267-0 (e-book)
- 02-10 *IUTAM Symposium on Multiscale Modeling and Characterization of Elastic-Inelastic Behavior of Engineering Materials*(Marrakech, Morocco, 20-25 October 2002).The Proceedings of the Symposium edited by S. Ahzi, M. Charkaoui, M.A. Khaleel, H.M. Zbib, M.A. Zikry and B. LaMatina, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2003.
- ISBN 1-4020-1861-4.

2001

- 01-1 *IUTAM Symposium on Flow in Collapsible Tubes and Past Other Highly Compliant Boundaries*(Warwick, Coventry, March 26-30, 2001).The Proceedings of the Symposium, edited by P.W. Carpenter and T.J. Pedley, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2003.
[ISBN 1-4020-1161-X](#).
- 01-2 *IUTAM Symposium on Material Instabilities and the Effect of Microstructure* (Austin, Texas, USA, 7-11 May 2001).The Proceedings of the Symposium, edited by S. Kyriakides and N. Triantafyllidis, have been published by [Elsevier Science ltd.](#) , as a special issue of the International Journal of Solids and Structures, number 39, 2002.
- 01-3 *IUTAM Symposium on Turbulent Mixing and Combustion* (Kingston, Ontario, Canada, 3-6 June 2001).The Proceedings of the Symposium, edited by A. Pollard and S. Candel, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2002.
[ISBN 1-4020-0747-7](#).
- 01-4 *IUTAM Symposium on Micromechanics of Martensitic Phase Transformation in Solids*(Hong Kong, 11-15 June 2001).The Proceedings of the Symposium, edited by Q.P. Sun, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2002.
[ISBN 1-4020-0741-8](#)
- 01-5 *IUTAM Symposium on Analytical and Computational Fracture Mechanics of Non-Homogeneous Materials*(Cardiff, England, 18-22 June 2001).The Proceedings of the Symposium, edited by B.L. Karihaloo, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2002.
[ISBN 1-4020-0510-5](#)
- 01-6 *IUTAM Symposium on Computational Mechanics of Solid Materials at Large Strains* (Stuttgart, Germany, 20-24 August 2001).The Proceedings of the Symposium, edited by C. Miehe, have

been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2003.

[ISBN 1-4020-1170-9](#)

- 01-7 *IUTAM Symposium and NATO ARW on Tubes, Sheets and Singularities In Fluid Dynamics* (Zakopane, Poland, 2-7 September 2001). The Proceedings of the Symposium / NATO ARW, edited by K. Bajer and H.K. Moffatt, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, in 2002.
[ISBN 1-4020-0980-1](#)

2000

- 00-1 *IUTAM Symposium on Creep in Structures* (Nagoya, Japan, 3-7 April 2000). The Proceedings of the Symposium, edited by S. Murakami and N. Ohno, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2000.
[ISBN 0-7923-6737-5.](#)
- 00-2 *IUTAM Symposium on Bluff Body Wakes and Vortex-induced Vibration* (Marseille, France, 13-16 June 2000). The Proceedings of the Symposium edited by T. Leweke, P.W. Bearman and C.H.K. Williamson, have been published by Academic Press in the Journal of Fluids and Structures, Special Issue on Bluff Body Wakes and Vortex-Induced Vibrations, London, 2001. ISSN 0889-9746, Vol. 15, nos. 3/4.
- 00-2a *IUTAM Symposium on Scaling Laws in Ice Mechanics and Ice Dynamics* (Fairbanks, Alaska, USA, 13-16 June 2000). The Proceedings of the Symposium, edited by J.P. Dempsey and H.H. Shen, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2001.
[ISBN 1-4020-0171-1.](#)
- 00-3 *IUTAM Symposium on Mechanical Waves for Composite Structures Characterization* (Chania, Crete, Greece, 14-17 June 2000). The Proceedings of the Symposium, edited by D.A. Sotiropoulos, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2001.
[ISBN 0-7923-7164-X.](#)

- 00-4 *IUTAM Symposium on Advances in Mathematical Modelling of Atmosphere and Ocean Dynamics*(Limerick, Ireland, 2-7 July 2000).The Proceedings of the Symposium, edited by P.F. Hodnett, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2001.
ISBN 0-7923-7075-9.
- 00-5 *IUTAM Symposium on Free Surface Flows*(Birmingham, United Kingdom, 10-14 July 2000).The Proceedings of the Symposium, edited by A.C. King and Y.D. Shikhmurzaev , have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2001.
ISBN 0-7923-7085-6.
- 00-6 *IUTAM Symposium on Diffraction and Scattering in Fluid Mechanics and Elasticity*(Manchester, England, 17-20 July 2000).The Proceedings of the Symposium, edited by I.D. Abrahams, P.A. Martin and M.J. Simon, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2002.
ISBN 1-4020-0590-3.
- 00-7 *IUTAM Symposium on Field Analyses for Determination of Material Parameters-Experimental and Numerical Aspects* (Kiruna, Sweden, 31 July-4 August 2000).The Proceedings of the Symposium,edited by P. Stahle and K.G. Sundin, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2003.
ISBN 1-4020-1283-7.
- 00-8 *IUTAM Symposium on Smart Structures and Structronic Systems*(Magdeburg, Germany, 26-29 September 2000).The Proceedings of the Symposium, edited by U. Gabbert and H.S. Tzou, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2001.
ISBN 0-7923-6968-8.
- 00-9 *IUTAM Symposium on Designing for Quietness* (Bangalore, India, 12-14 December 2000).The Proceedings of the Symposium, edited by M.L. Munjal, have been published by Kluwer

Academic Publishers, Dordrecht, The Netherlands, 2002.
[ISBN 1-4020-0765-5.](#)

1999

- 99-1 *IUTAM Symposium on Nonlinearity and Stochastic Structural Dynamics* (Madras, India, 4-8 January 1999). The Proceedings of the Symposium, edited by S. Narayanan and R.N. Iyengar, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2000.
[ISBN 0-7923-6733-2.](#)
- 99-2 *IUTAM Symposium on Mechanical and Electromagnetic Waves in Structured Media* (Sydney, NSW, Australia, 18-22 January 1999). The Proceedings of the Symposium, edited by R.C. McPhedran, L.C. Botten and N.A. Nicorovici, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2001.
[ISBN 0-7923-7038-4.](#)
- 99-3 *IUTAM Symposium on Recent Developments in Nonlinear Oscillations of Mechanical Systems* (Hanoi, Vietnam, 2-5 March 1999). The Proceedings of the Symposium, edited by N. Van Dao and E.J. Kreuzer, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2000.
[ISBN 0-7923-6470-8.](#)
- 99-4 *IUTAM/IACM/IABEM Symposium on Advanced Mathematical and Computational Mechanics Aspects of the Boundary Element Method* (Cracow, Poland, 31 May-3 June 1999). The Proceedings of the Symposium, edited by T. Burczynski, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2001.
[ISBN 0-7923-7081-3.](#)
- 99-5 *IUTAM Symposium on Segregation in Granular Flows* (Cape May, New Jersey, USA, 5-10 June 1999). The Proceedings of the Symposium, edited by A.D. Rosato and D.L. Blackmore, have

been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2000.
[ISBN 0-7923-6547-X.](#)

- 99-6 *IUTAM Symposium on Nonlinear Wave Behaviour in Multi Phase Flow* (Notre Dame, Indiana, USA, 7-9 July 1999).The Proceedings of the Symposium edited by H.C. Chang, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2000.
[ISBN 0-7923-6454-6.](#)
- 99-7 *IUTAM Symposium on Theoretical and Numerical Methods in Continuum Mechanics of Porous Materials* (Stuttgart, Germany, 5-10 September 1999).The Proceedings of the Symposium, edited by W. Ehlers, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2001.
[ISBN 0-7923-6766-9.](#)
- 99-8 *IUTAM Symposium on Laminar-Turbulent Transition* (Sedona, Arizona, USA, 12-18 September 1999).The Proceedings of the Symposium, edited by H. Fasel and W.S. Saric, have been published by Springer-Verlag, Berlin/Heideberg/New York, 2000.
ISBN 3-540-67947-2.
- 99-9 *IUTAM Symposium on Geometry and Statistics of Turbulence* (Hayama, Japan, 1-5 November 1999).The Proceedings of the Symposium edited by T. Kambe, T. Nakano and T. Miyauchi, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2001.
[ISBN 0-7923-6711-1.](#)

1998

- 98-1 *IUTAM Symposium on Three-Dimensional Aspects of Air-Sea Interaction* (Nice, France, 17-21 May 1998).The Proceedings of the Symposium, edited by F. Dias and C. Kharif, have been published as a special issue of the "European Journal of Mechanics B / Fluids", Vol. 18, No. 3 (1999)

- 98-2 *IUTAM Symposium on Synthesis in Bio Solid Mechanics* (Lyngby, Denmark, 24-27 May 1998).The Proceedings of the Symposium, edited by Pauli Pedersen and Martin P. Bendsøe, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1999.
[ISBN 0-7923-5615-2.](#)
- 98-3 *IUTAM/IUGG Symposium on Developments in Geophysical Turbulence* (Boulder, USA, 16-19 June 1998).The Proceedings of the Symposium, edited by R.M. Kerr and Y. Kimura, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2000
[ISBN 0-7923-6673-5.](#)
- 98-4 *IUTAM Symposium on Viscoelastic Fluid Mechanics* (Stanford, USA, 21-25 June 1998).A Report on this Symposium by E.S.G. Shaqfeh and a collection of selected papers have been published in the "Journal of Non-Newtonian Fluid Mechanics", Vol. 82 (1999), pp. 127-457.
- 98-5 *IUTAM Symposium on Unilateral Multibody Contacts* (Mnncen, Germany, 3-7 August 1998).The Proceedings of the Symposium, edited by F. Pfeiffer and Ch. Glocker, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1999.
[ISBN 0-7923-6030-3.](#)
- 98-6 *IUTAM/IFTOMM Symposium on Synthesis of Nonlinear Dynamical Systems* (Riga, Latvia, 24-28 August 1998).The Proceedings of the Symposium, edited by E. Lavendelis and M. Zakrzhevsky, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1999.
[ISBN 0-7923-6106-7.](#)
- 98-7 *IUTAM Symposium on Advanced Optical Methods and Applications in Solid Mechanics* (Poitiers, France, 31 August-4 September 1998).The Proceedings of the Symposium, edited by A. Lagarde, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2000.
[ISBN 0-7923-6604-2.](#)

- 98-8 *IUTAM/IIASS Symposium on Deployable Structures: Theory and Applications* (Cambridge, UK, 6-9 September 1998).The Proceedings of the Symposium, edited by S. Pellegrino and S.D. Guest, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 2000.
[ISBN 0-7923-6516-X.](#)
- 98-9 *IUTAM Symposium on Mechanics of Passive and Active Flow Control* (Göttingen, Germany, 7-11 September 1998).The Proceedings of the Symposium, edited by G.E.A. Meier and P.R. Viswanath, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1999.
[ISBN 0-7923-5928-3.](#)
- 1997**
- 97-1 *IUTAM Symposium on Lubricated Transport of Viscous Materials* (Tobago, 7-10 January 1997).The Proceedings of the Symposium, edited by Harold Ramkisson, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1997.
[ISBN 0-7923-4897-4.](#)
- 97-2 *IUTAM Symposium on Transformation Problems in Composite and Active Materials* (Cairo, Egypt, 9-12 March 1997).The Proceedings of the Symposium, edited by Y.A. Bahei-El-Din and G.J. Dvorak, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1998.
[ISBN 0-7923-5122-3.](#)
- 97-3 *IUTAM Symposium on Non-Linear Singularities in Deformation and Flow* (Haifa, Israel, 17-21 March 1997).The Proceedings of the Symposium, edited by D. Durban and J.R.A. Pearson, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands,1998.
[ISBN 0-7923-5349-8.](#)
- 97-4 *IUTAM Symposium on Variations of Domains and Free-Boundary Problems in Solid Mechanics* (Paris, France, 22-25 April 1997).The Proceedings of the Symposium, edited by P.

Argoul, M. FrTmond and Q.S. Nguyen, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1998.
[ISBN 0-7923-5450-8.](#)

- 97-5 *IUTAM Symposium on Simulation and Identification of Organized Structures in Flows* (Lyngby, Denmark, 25-29 May 1997).The Proceedings of the Symposium, edited by J.N. Sørensen, E.J. Hopfinger, and N. Aubry, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1999.
[ISBN 0-7923-5603-9.](#)
- 97-6 *IUTAM Symposium on Discretization Methods in Structural Mechanics* (Vienna, Austria, 1-6 June 1997).The Proceedings of the Symposium, edited by H.A. Mang and F.G. Rammerstorfer, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands 1999.
[ISBN 0-7923-5591-1.](#)
- 97-7 *IUTAM Symposium on Material Instabilities in Solids* (Delft, The Netherlands, 9-13 June 1997).The Proceedings of the Symposium, edited by R. de Borst en E. van der Giessen, have been published by John Wiley & Sons, Chichester, UK,1998 .
[ISBN 0-471-97460-9.](#)
- 97-8 *IUTAM Symposium on Statistical Energy Analysis* (Southampton, UK. 8-11 July 1997).The Proceedings of the Symposium, edited by F.J. Fahy and W.G Price, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1998,
[ISBN 0-7923-5457-5.](#)
- 97-9 *IUTAM Symposium on Rheology and Computation* (Sydney, Australia, 20-25 July 1997).No formal Proceedings of the Symposium have been published. Selected papers have been published in several 1999-volumes of the “Journal of Non-Newtonian Fluid Mechanics”, with a footnote attached to each of those papers.

- 97-10 *IUTAM Symposium on New Applications of Nonlinear and Chaotic Dynamics in Mechanics* (Ithaca, NY, USA, 27 July-1 August 1997).The Proceedings of the Symposium, edited by Francis C. Moon, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1998.
[ISBN 0-7923-5276-9.](#)
- 97-11 *IUTAM Symposium on Computational Methods for Unbounded Domains* (Boulder, USA, 3-7 August 1997).The Proceedings of the Symposium, edited by Thomas L. Geers, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1998.
[ISBN 0-7923-5266-1.](#)
- 97-12 *IUTAM Symposium on Micro- and Macrostructural Aspects of Thermoplasticity* (Bochum, Germany, 25-29 August 1997).The Proceedings of the Symposium, edited by O.T. Bruhns and E. Stein, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1998.
[ISBN 0-7923-5265-3.](#)
- 97-13 *IUTAM Symposium on Dynamics of Slender Vortices* (Aachen, Germany, 31 August – 3 September 1997).The Proceedings of the Symposium, edited by E. Krause and K. Gersten, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1998.
[ISBN 0-7923-5041-3.](#)
- 97-14 *IUTAM Symposium on Rheology of Bodies with Defects* (Beijing, China, 2-6 September 1997).The Proceedings of the Symposium, edited by Ren Wang, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1998.
[ISBN 0-7923-5297-1.](#)
- 1996**
- 96-1 *IUTAM Symposium on Interaction between Dynamics and Control in Advanced Mechanical Systems* (Eindhoven, The Netherlands, 21-26 April 1996).The Proceedings of the Symposium, edited by D.H. van Campen have been published by Kluwer Academic Publishers, Dordrecht,

The Netherlands, 1997.

[ISBN 0-7923-4429-4.](#)

- 96-2 *IUTAM Symposium on Innovative Computational Methods for Fracture and Damage* (Dublin, Ireland, 30 June-5 July 1996).The Proceedings of the Symposium, edited by P. E. O' Donoghue, M. D. Gilchrist and K. B. Broberg, have been published in the "Computational Mechanics Journal", 19, 447- 552; 20, 3-198, 1997.
- 96-3 *IUTAM Symposium on Variable Density Low Speed Turbulent Flows* (Marseille, France, 7-10 July 1996). Co-sponsored by ICSU.The Proceedings of the Symposium, edited by Louis Fulachier, John L. Lumley and Fabien Anselmet, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1997.
[ISBN 0-7923-4602-5.](#)
- 96-4 *IUTAM Symposium on Mechanics of Granular and Porous Materials* (Cambridge, UK, 15-17 July 1996).The Proceedings of the Symposium, edited by N.A. Fleck and A.C.F. Cocks, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1997.
[ISBN 0-7923-4553-3.](#)

1995

- 95-1 *IUTAM Symposium on Optimization of Mechanical Systems* (Stuttgart, Germany, 26-31 March 1995).The Proceedings of the Symposium, edited by D. Bestle and W. Schiehlen, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1996.
[ISBN 0-7923-3830-8.](#)
- 95-2 *IUTAM Symposium on Asymptotic Methods for Turbulent Shear Flows at High Reynolds Numbers* (Bochum, Germany, 28-30 June 1995).The Proceedings of the Symposium, edited by K. Gersten, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1996.
[ISBN 0-7923-4138-4.](#)

- 95-3 *IUTAM Symposium on Advances in Nonlinear Stochastic Mechanics* (Trondheim, Norway, 3 – 7 July 1995).The Proceedings of the Symposium, edited by A. Naess and S. Krenk, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1996.
[ISBN 0-7923-4193-7.](#)
- 95-4 *IUTAM Symposium on Nonlinear Instability and Transition in Three-Dimensional Boundary Layers* (Manchester, UK, 17-20 July 1995).The Proceedings of the Symposium, edited by P.W. Duck and P. Hall, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1996.
[ISBN 0-7923-4079-5.](#)
- 95-6 *IUTAM Symposium on Micromechanics of Plasticity and Damage of Multiphase Materials* (Paris, France, 29 August-1 September 1995).The Proceedings of the Symposium, edited by A.Pineau and A.Zaoui, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1996.
[ISBN 0-7923-4188-0.](#)
- 95-7 *IUTAM Symposium on Nonlinear Analysis of Fracture* (Cambridge, UK, 3-7 September 1995).The Proceedings of the Symposium, edited by J. Willis, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1997.
[ISBN 0-7923-4378-6.](#)
- 95-9 *IUTAM Symposium on Combustion in Supersonic Flows* (Poitiers, France, 2-6 October 1995).The Proceedings of the Symposium, edited by M. Champion and B. Deshaies, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1997.
[ISBN 0-7923-4313-1.](#)
- 1994**
- 94-1 *IUTAM Symposium on Liquid-Particle Interactions in Suspension Flow* (Grenoble, France, 18-22 April 1994).The chairman G. Cognet has not edited the Proceedings (Oct. 1996).

- 94-2 *IUTAM Symposium on Waves in Liquid / Gas and Liquid / Vapor Two-Phase Systems* (Kyoto, Japan, 9-13 May 1994).The Proceedings of the Symposium, edited by Shigeki Morioka and L. van Wijngaarden, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1995.
[ISBN 0-7923-3424-8.](#)
- 94-3 *IUTAM / ISIMM Symposium on Structure and Dynamics of Nonlinear Waves in Fluids* (Hanover, Germany, 17-20 August 1994).The Proceedings of the Symposium, edited by A. Mielke and K. KirchgSssner, have been published as Volume 7 of the Advanced Series in Nonlinear Dynamics, by World Scientific Publishing, Singapore, 1995.
ISBN 981-02-2124-X.
- 94-4 *IUTAM Symposium on Microstructure-Property Interactions in Composite Materials* (Aalborg, Denmark, 23-25 August 1994).The Proceedings of the Symposium, edited by R. Pyrz, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1995.
[ISBN 0-7923-3427-2.](#)
- 94-5 *IUTAM/ISIMM Symposium on Anistropy, Inhomogeneity and Nonlinearity in Solid Mechanics* (Nottingham, UK, 30 August-3 September 1994).The Proceedings of the Symposium, edited by D.F. Parker and A.H. England, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1995.
[ISBN 0-7923-3594-5.](#)
- 94-6 *IUTAM Symposium on Laminar-Turbulent Transition* (Sendai, Japan, 5-9 September 1994).The Proceedings of the Symposium, edited by R. Kobayashi, have been published by Springer Verlag, Berlin, 1995.
ISBN 3-540-59297-0.
- 94-7 *IUTAM Symposium on Mechanical Problems in Geodynamics* (Beijing, China, 5-9 September 1994).The Proceedings of the Symposium, edited by R. Wang and K. Aki, have been published in the journal "PAGEOPH (Pure and Applied Geophysics)", Part I in vol.145, no.3/4, Dec.1995

(ISSN 0033-4553) , and Part II in vol.146, no.3/4, Feb.1996 (ISBN 3-7643-5412-7). A bound volume has been announced to be published in 1996.

- 94-8 *IUTAM Symposium on The Active Control of Vibrations* (Bath, UK, 5-8 September 1994).The Proceedings of the Symposium, edited by C.R. Burrows and P.S. Keogh have been published by Mechanical Engineering Publications Limited, London, 1994. ISBN 0-85298-916-4.
- 94-9 *IUTAM Symposium on Size-Scale Effects in the Failure Mechanisms of Materials and Structures* (Turin, Italy, 3-7 October 1994).The Proceedings of the Symposium, edited by A. Carpinteri, have been published by E & FN Spon, London, UK, 1995. ISBN 0-419-20520-9.
- 94-10 *IUTAM Symposium on Mechanics and Combustion of Droplets and Sprays* (Taipei, Taiwan, 6-10 December 1994).The Proceedings of the Symposium, edited by H.H. Chiu, have been published by Begell House, Inc. New York, USA, 1995, pp. 396. ISBN 1-56700-051-7.Selected papers under the title Mechanics and Combustion of Droplets and Sprays have been published by Begell House Publishers at 79 Madison Avenue, New York, NY 10016, Fax (+1) 212-213-8368, edited by N.A. Chigier.

1993

- 93-1 *IUTAM Symposium on Probabilistic Structural Mechanics: Advances in Structural Reliability Methods* (San Antonio, Texas, USA, 7-10 June 1993).The Proceedings of the Symposium, edited by P.D. Spanos and Y.-T. Wu. have been published by Springer-Verlag, Berlin, 1994. ISBN 3-540-57709-2.
- 93-2 *IUTAM Symposium on Computational Mechanics and Materials* (Providence, RI, USA, 15-18 June 1993).The Proceedings of the Symposium have been published as a special issue in a journal "Modelling and Simulation in Materials Science and Engineering", edited by M. Ortiz and C.F. Shih, Vol 2 No 3A 421-782 May 1994, ISSN: 0965-0393.

- 93-3 *IUTAM Symposium on Nonlinearity and Chaos in Engineering Dynamics* (University College, London, 19-23 July 1993). The Proceedings of the Symposium, edited by J.M.T. Thompson and S.R. Bishop, have been published by John Wiley & Sons, Chichester, UK, 1994. ISBN 0-471-94458-0.
- 93-4 *IUTAM Symposium on Nonlinear Instability of Nonparallel Flows* (Potsdam, NY, USA, 26-31 July 1993). The Proceedings of the Symposium, edited by S.P. Lin, W.R.C. Phillips, D.T. Valentine, have been published by Springer-Verlag, Berlin, 1994. ISBN 3-540-57679-7.
- 93-5 *IUTAM Symposium on Nonlinear Waves in Solids* (Victoria, British Columbia, Canada, 15-20 August 1993). The Proceedings of the Symposium, edited by Joanne L. Wegner and Frederick R. Norwood, have been published by The American Society of Mechanical Engineers, New York, 1995. ISBN 0-7918-0645-6.
- 93-6 *IUTAM Symposium on Identification of Mechanical Systems* (Wuppertal, Germany, 23-27 August 1993). The Proceedings of the Symposium, edited by P.C. Müller, have been announced to be published by Springer-Verlag, Berlin, 1995.
- 93-7 *IUTAM Symposium on Discrete Structural Optimization* (Zakopane, Poland, 31 August-3 September 1993). The Proceedings of the Symposium, edited by W. Gutkowski, have been published by Springer-Verlag, Berlin, 1994. ISBN 3-540-57679-X.
- 93-8 *IUTAM Symposium on Bubble Dynamics and Interface Phenomena* (Birmingham, UK, 6-9 September 1993). The Proceedings of the Symposium, edited by J.R. Blake, J.M. Boulton-Stone and N.H. Thomas, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1994. [ISBN 0-7923-3008-0.](#)

- 93-9 *IUTAM Symposium on Fracture of Brittle, Disordered Materials: Concrete, Rock and Ceramics* (Brisbane, Australia, 20-24 September 1993). The Proceedings of the Symposium, edited by G. Baker and B.L. Karihaloo, have been published by E & FN Spon, London, UK, 1995. ISBN 0-419-19050-3.
- 93-10 *IUTAM Symposium on Impact Dynamics* (Beijing, China, 11-15 October 1993). The Proceedings of the Symposium, edited by Zheng Zhemin (Che-Min Cheng) and Tan Qingming, have been published by Peking University Press, Beijing, China, 1994. ISBN 7-301-02489-4/0 338.
- 93-11 *IUTAM Symposium on Numerical Simulation of Non-Isothermal Flow of Viscoelastic Liquids* (Kerkrade, The Netherlands, 1-3 November 1993). The Proceedings of the Symposium, edited by J.F. Dijksman and G.D.C. Kuiken have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1995. ISBN 0-7923-3262-8.

1992

- 92-1 *IUTAM Symposium on Optimal Control of Mechanical Systems* (Moscow, Russia, 19-25 April 1992). The Proceedings of the Symposium, co-edited by F.L. Chernousko, have been published in Russian in the form of a (special) issue of the journal "Izvestiya of the Russian Academy of Sciences, Tekhnicheskaya Kibernetika, No. 1, Jan.-Febr. 1993", ISSN 0002-3388; and in the English translation of this journal published by Scripta Technica Inc., A. Wiley Company, New York.
- 92-2 *IUTAM Symposium on Inverse Problems in Engineering Mechanics* (Tokyo, Japan, 11-15 May 1992). The Proceedings of the Symposium, edited by M. Tanaka and H.D. Bui, have been published by Springer-Verlag, Berlin, 1993. ISBN 3-540-56345-8.

- 92-3 *IUTAM Symposium on Optimal Design with Advanced Materials* The Frithiof I. Niordson Volume (Lyngby, Denmark, 18-20 August 1992).The Proceedings of the Symposium, edited by P. Pedersen, have been published by Elsevier Science Publishers, Amsterdam, 1993. ISBN 0444-89869-7.
- 92-4 *IUTAM Symposium on Aerothermochemistry of Spacecraft and Associated Hypersonic Flows* (Marseille, France, 1-4 September 1992).The Proceedings of the Symposium, edited by R. Brun and A.A. Chikhaoui, have been published by Jouve, 18, rue Saint-Denis, F-75001 Paris. DTp(t ITgal: Janvier, 1994. No. 215515N.
- 92-5 *IUTAM Symposium on Bluff-Body Wakes, Dynamics and Instabilities* (Göttingen, Germany, 7-11 September 1992).The Proceedings of the Symposium, edited by H. Eckelmann, J.M.R. Graham, P. Huerre and P.A. Monkewitz, have been published by Springer-Verlag, Berlin, 1993. ISBN 3-540-56594-9.
- 92-6 *IUTAM Symposium on Fluid Dynamics of High Angle of Attack* (Tokyo, Japan, 13-17 September 1992).The Proceedings of the Symposium, edited by R. Kawamura and Y. Aihara, have been published by Springer-Verlag, Berlin, 1993. ISBN 3-540-56593-0.
- 92-7 *IUTAM Symposium on Eddy Structure Identification in Free Turbulent Shear Flow* (Poitiers, France, 12-14 October 1992).The Proceedings of the Symposium, edited by J.P. Bonnet and M.N. Glauser, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1993. ISBN 0-7923-2449-8.

1991

- 91-1 *IUTAM Symposium on Aerothermodynamics in Combustors* (Taipei, Taiwan, 3-5 June 1991).The Proceedings of the Symposium, edited by R.S.L. Lee, J.H. Whitelaw and T.S. Wung, have been

published by Springer-Verlag, Berlin, 1992.
ISBN 3-540-55404-1.

- 91-2 *IUTAM Symposium on Mechanical Effects of Welding* (Lulea, Sweden, 10-14 June 1991).The Proceedings of the Symposium, edited by L. Karlsson, L.E. Lindgren and M. Jonsson, have been published by Springer-Verlag, Berlin, 1992.
ISBN 3-540-55240-5.
- 91-3 *IUTAM Symposium on Nonlinear Stochastic Mechanics* (Torino, Italy, 1-5 July 1991).The Proceedings of the Symposium, edited by N. Bellomo and F. Casciati, have been published by Springer-Verlag, Berlin, 1992.
ISBN 3-540-55545-5.
- 91-4 *IUTAM Symposium on Mechanics of Fluidized Beds* (Stanford, California, 1-4 July 1991).No Proceedings of the Symposium have been published.
The "Report of a Symposium on Mechanics of Fluidized Beds" by G.M. Homsy, R. Jackson and J.R.Grace has been published in the "Journal of Fluid Mechanics" (1992),
Vol. 236, 477-495.
- 91-5 *IUTAM Symposium on Breaking Waves* (Sydney, Australia, 15-19 July 1991).The Proceedings of the Symposium, edited by M.L. Banner and R. Grimshaw, have been published by Springer-Verlag, Berlin, 1992.
ISBN 3-540-55944-2.
- 91-6 *IUTAM Symposium on Constitutive Relations for Finite Deformations of Polycrystalline Metals* (Beijing, China, 22-25 July 1991).The Proceedings of the Symposium, edited by Ren Wang and D.C. Drucker, have been published by Springer-Verlag, Berlin, 1992.
ISBN 3-540-55128-X.
- 91-7 *IUTAM Symposium on Finite Inelastic Deformations – Theory and Application* (Hannover, Germany, 19-23 August 1991).The Proceedings of the Symposium, edited by D. Besdo and E. Stein, have

been published by Springer-Verlag, Berlin, 1992.
ISBN 3-540-55849-7.

- 91-8 *IUTAM Symposium on Interpretation of Time Series from Mechanical Systems* (Warwick, UK, 26-30 August 1991).The Proceedings of the Symposium, edited by P.G. Drazin and G.P. King, have been published by North Holland, Elsevier Science Publ, Amsterdam, Physica D Nonlinear Phenomena, Vol. 58, 1992. ISSN 0167-2789.
- 91-9 *IUTAM Symposium on Microgravity Fluid Mechanics* (Bremen, Germany, 2-6 September 1991).The Proceedings of the Symposium, edited by H.J. Rath, have been published by Springer-Verlag, Berlin, 1992.
ISBN 3-540-55122-0.
- 91-10 *IUTAM Symposium on Local Mechanics Concepts for Composite Material Systems* (Blacksburg, Virginia, 27-31 October 1991).The Proceedings of the Symposium, edited by J.N. Reddy and K.L. Reifsnider, have been published by Springer-Verlag, Berlin, 1992.
ISBN 3-540-55547-1.

1990

- 90-1 *IUTAM Symposium on Mechanical Modeling of New Electromagnetic Materials* (Stockholm, Sweden, 2-6 April 1990).The Proceedings of the Symposium, edited by R.K.T. Hsieh, have been published by Elsevier, Amsterdam, 1990.
ISBN 0-444-88518-8.
- 90-2 *IUTAM Symposium on Dynamical Problems of Rigid-Elastic Systems and Structures* (Moscow, USSR, 23-27 May 1990).The Proceedings of the Symposium, edited by N.V. Banichuk, D.M. Klimov and W. Schiehlen, have been published by Springer-Verlag, Berlin, 1991.
ISBN 3-540-53788-0.

- 90-3 *IUTAM Symposium on Inelastic Deformation of Composite Materials* (Troy, New York, USA, 29 May-1 June 1990).The Proceedings of the Symposium, edited by G.J. Dvorák, have been published by Springer-Verlag, New York, 1991.
ISBN 0-387-97458-X.
- 90-4 *IUTAM Symposium on Dynamics of Marine Vehicles and Structures in Waves* (Uxbridge, UK, 24-17 June 1990).The Proceedings of the Symposium, edited by W.G. Price, P. Temarel and A.J. Keane, have been published by Elsevier, Amsterdam, 1991.
ISBN 0-444-89020-3.
- 90-5 *IUTAM Symposium on Separated Flows and Jets* (Novosibirsk, USSR, 9-13 July 1990).The Proceedings of the Symposium, edited by V.V. Kozlov and A.V. Dovgal, have been published by Springer-Verlag, Berlin, 1991.
ISBN 3-540-53762-7.
- 90-6 *IUTAM Symposium on Fluid Mechanics of Stirring and Mixing* (La Jolla, California, USA, 20-24 August 1990).The Proceedings of the Symposium, edited by A. Acrivos, have been published in the journal "Physics of Fluids A", ISSN 0899-8213, Vol. 3 (1991), pp. 1009-1469.
- 90-7 *IUTAM Symposium on Nonlinear Hydrodynamic Stability and Transition* (Sophia-Antipolis, Nice, France, 3-7 September 1990).The Proceedings of the Symposium, edited by G. looss, have been published in the journal "European Journal of Mechanics B/ Fluids", ISSN 0997-7546, Vol. 10 (1991), No. 2-Suppl., 3-334.
- 90-8 *IUTAM Symposium on Contact Load and Local Effects in Thin-Walled Plates and Shell Structures* (Prague, CSFR, 4-7 September 1990).The Proceedings of the Symposium, edited by V. Krupka and M. Drdácky, have been published by Springer-Verlag, Berlin, 1992.
ISBN 3-540-53551-9.
- 90-9 *IUTAM Symposium on Creep in Structures* (Cracow, Poland, 10-14 September 1990).The Proceedings of the Symposium, edited by M.

Zyczkowski, have been published by Springer-Verlag, Berlin, 1992.
ISBN 3-540-53786-4.

1989

- 89-1 *IUTAM / IACM Symposium on Discretization Methods in Structural Mechanics* (Vienna, Austria, 5-9 June 1989).The Proceedings of the Symposium, edited by G. Kuhn and H. Mang, have been published by Springer-Verlag, Berlin, 1990.
ISBN 3-540-52011-2.
- 89-2 *IUTAM Symposium on Structure of Turbulence and Drag Reduction* (Zurich, Switzerland, 25-28 July 1989).The Proceedings of the Symposium, edited by A. Gyr, have been published by Springer-Verlag, Berlin 1990.
ISBN 3-540-50204-1.
- 89-3 *IUTAM Symposium on Elastic Wave Propagation and Ultrasonic Evaluation* (Boulder, Colorado, USA, 30 July-3 August 1989).The Proceedings of the Symposium, edited by S.K. Datta, J.D. Achenbach and Y.S. Rajapakse, have been published by North-Holland, Amsterdam, 1990.
ISBN 0-444-87485-2.
- 89-4 *IUTAM Symposium on Topological Fluid Mechanics* (Cambridge, UK, 13-18 August 1989).The Proceedings of the Symposium, edited by H.K. Moffatt and A. Tsinober, have been published by Cambridge University Press, Cambridge, 1990.
ISBN 0-521-38145-2.
- 89-5 *IUTAM / IAHR Symposium on Ice-Structure Interaction* (St. John's, Newfoundland, Canada, 14-17 August 1989).The Proceedings of the Symposium, edited by S.J. Jones, R.S. McKenna, J. Tillotson and I.J. Jordaan, have been published by Springer-Verlag, Berlin 1991.
ISBN 3-540-52192-5.

89-6 *IUTAM Symposium on Nonlinear Dynamics in Engineering Systems* (Stuttgart, FRG, 21-25 August 1989).The Proceedings of the Symposium, edited by W. Schiehlen, have been published by Springer-Verlag, Berlin, 1990.
ISBN 3-540-50200-9.

89-7 *IUTAM Symposium on Adiabatic Waves in Liquid-Vapor Systems* (Göttingen, FRG, 28 August-1 September 1989).The Proceedings of the Symposium, edited by G.E.A. Meier and P.A. Thompson, have been published by Springer-Verlag, Berlin, 1990.
ISBN 3-540-50203-3.

89-8 *IUTAM Symposium on Laminar-Turbulent Transition* (Toulouse, France, 11-15 September 1989).The Proceedings of the Symposium, edited by D. Arnal and R. Michel, have been published by Springer-Verlag, Berlin, 1990.
ISBN 3-540-52196-8.

1988

88-1 *IUTAM Symposium on Structural Optimization* (Melbourne, Australia, 9-13 February 1988).The Proceedings of the Symposium, edited by G.I.N. Rozvany and B.L. Karihaloo, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands,1988.
[ISBN 90-247-3771-0.](#)

88-2 *IUTAM Symposium on Recent Advances in Nonlinear Fracture Mechanics* (Pasadena, California, USA, 14-16 March 1988).The Proceedings of the Symposium, edited by W.G. Knauss and A.J. Rosakis, have been published in the "International Journal of Fracture", Vol. 42 (1990), Nos. 1-4 and reprinted by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1990.
[ISBN 07923-0658-9.](#)

88-3 *IUTAM / IUPAP Symposium on Elastic Wave Propagation* (Galway, Ireland, 21-26 March 1988).The Proceedings of the Symposium, edited by M.F. McCarthy and M.A. Hayes, have been published

by North-Holland, Elsevier Science Publ., Amsterdam, 1989.
ISBN 0-444-87272-8.

- 88-4 *IUTAM Symposium on Liquid Metal Magnetohydrodynamics* (Riga, USSR, 16-20 May 1988).The Proceedings of the Symposium, edited by J. Lielpeteris and R. Moreau, have been published by Kluwer Academic Publishers, Dordrecht, The Netherlands, 1989.
[ISBN 0-7923-0344-X](#).
- 88-5 *IUTAM Symposium Transsonicum III* (Göttingen, (Germany), 24-27 May 1988).The Proceedings of the Symposium, edited by J. Zierep and H. Oertel, have been published by Springer-Verlag, Berlin, 1989.
ISBN 3-540-50202-5.
- 88-6 *IUTAM / IFAC Symposium on Dynamics of Controlled Mechanical Systems* (Zürich, Switzerland, 30 May-3 June 1988).The Proceedings of the Symposium, edited by G. Schweitzer and M. Mansour, have been published by Springer-Verlag, Berlin, 1989.
ISBN 3-540-50201-7.

1987

- 87-1 *IUTAM Symposium on Turbulence Management and Relaminarisation* (Bangalore, India, 19-23 January 1987).The Proceedings of the Symposium, edited by R. Narasimha and H.Liepmann, have been published by Springer-Verlag, Berlin, 1988.
ISBN 3-540-18574-7.
- 87-2 *IUTAM Symposium on Advanced Boundary Element Methods: Applications in Solid and Fluid Mechanics* (San Antonio, Texas, USA, 13-16 April 1987).The Proceedings of the Symposium, edited by T.A. Cruse, have been published by Springer-Verlag, Berlin, 1988.
ISBN 3-540-17454-0.

- 87-3 *IUTAM Symposium on Nonlinear Stochastic Dynamic Engineering Systems* (Innsbruck, Austria, 21-26 June 1987).The Proceedings of the Symposium, edited by F. Ziegler and G.I. Schudller, have been published by Springer-Verlag, Berlin, 1988.
ISBN 3-540-18804-5.
- 87-4 *IUTAM / ICM Symposium on Yielding, Damage and Failure of Anisotropic Solids, Antoni Sawczuk in Memoriam* (Villard-de-Lans, France, 24-28 August 1987).The Proceedings of the Symposium, edited by J.P. Boehler, have been published by Mechanical Engineering Publ. Ltd., Bury St. Edmunds, 1990.
ISBN 0-852-98735-8.
- 87-5 *ICA / IUTAM Symposium on Nonlinear Acoustics* (Novosibirsk, USSR, 24-28 August 1987).The Proceedings of the Symposium, edited by V.K. Kedrinskii, have been published in two volumes by Lavrentyev Institute of Hydrodynamics, Academy of Sciences of the USSR, Siberian Division, Novosibirsk, 1987.
- 87-6 *IUTAM Symposium on Nonlinear Water Waves* (Tokyo, Japan, 25-28 August 1987).The Proceedings of the Symposium, edited by K. Horikawa and H. Maruo, have been published by Springer-Verlag, Berlin, 1988.
ISBN 3-540-18793-6.
- 87-7 *IUTAM Symposium on Fundamental Aspects of Vortex Motion* (Tokyo, Japan, 31 August-4 September 1987).The Proceedings of the Symposium, edited by H. Hasimoto and T. Kambe, have been published by North-Holland, Amsterdam, 1988.
ISBN 0-444-87142-X.

1986

- 86-1 *IUTAM Symposium on Fluid Mechanics in the Spirit of G.I. Taylor* (Cambridge, England, 24-28 March 1986).The Proceedings of the Symposium, edited by G.K. Batchelor, have been published in the "Journal of Fluid Mechanics", Vol. 173 (1986), pp. 1-709.

- 86-2 *IUTAM Symposium on Boundary Layer Separation* (London, England, 26-28 August 1986).The Proceedings of the Symposium, edited by S. Brown and F.T. Smith, have been published by Springer-Verlag, Berlin, 1987.
- 86-3 *IUTAM Symposium on Thermomechanical Couplings in Solids, Jean Mandel Memorial Symposium* (Paris, France, 1-5 September 1986).The Proceedings of the Symposium, edited by H.D. Bui and Q.S. Nguyen, have been published by North-Holland Publishing Co., Amsterdam, 1987.
- 86-4 *IUTAM Symposium on the Electromagnetomechanical Interactions in Deformable Solids and Structures* (Tokyo, Japan, 13-16 October 1986).The Proceedings of the Symposium, edited by Y. Yamamoto and K. Miya, have been published by North-Holland Publishing Co., Amsterdam, 1987.
- 86-5 *IUTAM / ISIMM Symposium on Application of Multiple Scaling in Mechanics* (Paris, France, 24-28 November 1986).The Proceedings of the Symposium, edited by P.G. Cairlet and E. Sanchez-Palencia, have been published by Masson, Paris, 1987.

1985

- 85-1 *IUTAM Symposium on Mechanics of Damage and Fatigue* (Haifa and Tel Aviv, Israel, 1-4 July 1985).The Proceedings of the Symposium, edited by S.R. Bodner and Z. Hashin, have been published in the journal "Engineering Fracture Mechanics", Vol. 25 (1986), pp.563-867.
- 85-2 *IUTAM Symposium on Aero- and Hydro-Acoustics* (Lyon, France, 3-6 July 1985).The Proceedings of the Symposium, edited by G. Comte-Bellot and J.E. Ffowcs Williams, have been published by Springer-Verlag, Berlin, 1986.
- 85-3 *IUTAM Symposium on Hydrodynamics of Ocean Wave-Energy Utilization* (Lisbon, Portugal, 8-11 July 1985).The Proceedings of the Symposium, edited by D.V. Evans and A.F. de Q. Falcão, have been published by Springer-Verlag, Berlin, 1986.

- 85-4 *IUTAM Symposium on Inelastic Behavior of Plates and Shells* (Rio de Janeiro, Brazil, 5-9 August 1985).The Proceedings of the Symposium, edited by L. Bevilacqua, R. Feij=0 and R. Valid, have been published by Springer-Verlag, Berlin, 1986.
- 85-5 *IUTAM Symposium on Macro-and Micro-Mechanics of High Velocity Deformation and Fracture* (Tokyo, Japan, 12-15 August 1985).The Proceedings of the Symposium, edited by K. Kawata and J. Shioiri, have been published by Springer-Verlag, Berlin, 1988.
- 85-6 *IUTAM Symposium on Mixing in Stratified Fluids* (Margaret River, Australia, 25-28 August 1985).The Proceedings of the Symposium, edited by J. Imberger, have been published in the "Journal of Geophysical Research", Vol. 92 (1987), No. C 5.
- 85-7 *IUTAM Symposium on Turbulent Shear-Layer / Shock-Wave Interactions* (Palaiseau, France, 9-12 September 1985).The Proceedings of the Symposium, edited by J. DTlery, have been published by Springer-Verlag, Berlin, 1986.
- 85-8 *IUTAM / IFToMM Symposium on Dynamics of Multibody Systems* (Udine, Italy, 16-20 September 1985).The Proceedings of the Symposium, edited by G. Bianchi and W. Schiehlen, have been published by Springer-Verlag, Berlin, 1986.
- 85-9 *IUTAM Symposium on Single- and Multi-Phase Fluid Flow Through Heterogeneous Permeable Materials* (Hamilton, New Zealand, 18-22 November 1985).The Proceedings of the Symposium, edited by I.G. Donaldson and R.A. Wooding, have been published in the journal "Transport in Porous Media", Vol. 1 (1986), pp.317-429, Vol. 2 (1987), pp. 103-214, pp. 425-517.

1984

- 84-1 *IUTAM / IFC / ICM Symposium on Fundamentals of Deformation and Fracture* (Sheffield, England, 2-5 April 1984, Eshelby Memorial Symposium).The Proceedings of the Symposium, edited by B.A. Bilby, K.J. Miller and J.R. Willis, have been published by Cambridge University Press, Cambridge, 1984.

- 84-2 *IUTAM Symposium on Probabilistic Methods in Mechanics of Solids and Structures* (Stockholm, Sweden, 19-21 June 1984, to the Memory of W. Weibull). The Proceedings of the Symposium, edited by S. Eggwertz and N.C. Lind, have been published by Springer-Verlag, Berlin, 1985.
- 84-3 *IUTAM Symposium on the Influence of Polymer Additives on Velocity and Temperature Fields* (Essen, FRG, 26-28 June 1984). The Proceedings of the Symposium, edited by B. Gampert, have been published by Springer-Verlag, Berlin, 1986.
- 84-4 *Second IUTAM Symposium on Laminar Turbulent Transition* (Novosibirsk, USSR, 9-13 July 1984). The Proceedings of the Symposium, edited by V.V. Kozlov, have been published by Springer-Verlag, Berlin, 1985.
- 84-5 *IUTAM Symposium on Optical Methods in the Dynamics of Fluids and Solids* (Liblice Castle, Czechoslovakia, 17-22 September 1984). The Proceedings of the Symposium, edited by M. Pechal, have been published by Springer-Verlag, Berlin, 1985.

1983

- 83-1 *IUTAM / IUPAP Symposium on the Mechanical Behavior of Electromagnetic Solid Continua* (Paris, France, 4-7 July 1983). The Proceedings of the Symposium, edited by G. A. Maugin, have been published by North-Holland, Amsterdam, 1984.
- 83-2 *IUTAM Symposium on Measuring Techniques in Gas-Liquid Two-Phase Flows* (Nancy, France, 5-8 July 1983). The Proceedings of the Symposium, edited by J.M. Delhay and G. Cognet, have been published by Springer-Verlag, Berlin, 1984.
- 83-3 *IUTAM / ICA Symposium on Mechanics of Hearing* (Delft, The Netherlands, 13-15 July 1983). The Proceedings of the Symposium, edited by E. de Boer and M A. Viergever, have been published by Martinus Nijhoff, The Hague, 1983.
ISBN 90-247-2878-9.

- 83-4 *IUTAM / IUGG Symposium on Atmospheric Dispersion of Heavy Gases and Small Particles* (Delft, The Netherlands, 29 August-2 September 1983).The Proceedings of the Symposium, edited by G. Ooms and H. Tennekes, have been published by Springer-Verlag, Berlin, 1984.
- 83-5 *IUTAM / IUGG Symposium on Seabed Mechanics* (Newcastle upon Tyne, UK, 5-9 September 1983).The Proceedings of the Symposium, edited by B. Denness, have been published by Graham & Trotman, London, 1983.
- 83-6 *IUTAM Symposium on Turbulence and Chaotic Behavior in Fluids* (Kyoto, Japan, 5-10 September 1983).The Proceedings of the Symposium, edited by T. Tatsumi, have been published by North-Holland, Amsterdam, 1984.
- 83-7 *IUTAM Symposium on Mechanics of Geomaterial: Rocks, Concretes, Soils* (Evanston, USA, 11-15 September 1983).The Proceedings of the Symposium, edited by Z.P. Bazant, have been published by John Wiley, London, 1985.

1982

- 82-1 *IUTAM Symposium on Three-Dimensional Turbulent Boundary Layers* (Berlin-West, 29 March-1 April 1982).The Proceedings of the Symposium, edited by H.H. Fernholz & E. Krause, have been published by Springer-Verlag, Berlin, 1982.
- 82-2 *IUTAM / COSPAR Symposium on Giant Planets and their Satellites* (Ottawa, Canada, 16 May-2 June 1982).The Proceedings of the Symposium, edited by M.G. Kivelson, have been published in "Advances in Space Research" 3:3 (1983), 1-111.
- 82-3 *IUTAM / COSPAR Symposium on Impact Processes in Solid Bodies* (Ottawa, Canada, 15 May-2 June 1982).The Proceedings of the Symposium, edited by J.A.M. McDonnell, have been published in "Advances in Space Research" 2: 12 (1982), 213-281.

- 82-4 *IUTAM / COSPAR Symposium on Fundamental Aspects of Material Science in Space* (Ottawa, Canada, 16 May-2 June 1982).The Proceedings of the Symposium, edited by Y. MalmTjac, have been published in "Advances in Space Research" 3: 5 (1983), 1-195.
- 82-5 *IUTAM / ISIMM Symposium on Modern Developments in Analytical Mechanics* (Torino, Italy, 7-11 June 1982).The Proceedings of the Symposium, edited by S. Benenti, M. Francaviglia and A. Lichnerowicz, have been published by the Academy of Sciences of Torino, 1983.
- 82-6 *IUTAM Symposium on Mechanics of Composite Materials* (Blacksburg, Virginia, USA, 16-19 August 1982).The Proceedings of the Symposium, edited by Z. Hashin and C.T. Herakovich, have been published by Pergamon Press, 1983.
- 82-7 *IUTAM Symposium on Nonlinear Deformation Waves* (Tallinn, Estonian SSR, USSR, 22-28 August 1982).The Proceedings of the Symposium, edited by U. Nigul and J. Engelbrecht, have been published by Springer-Verlag, Berlin, 1983.
- 82-8 *IUTAM Symposium on Collapse* (London, UK, 31 August-3 September 1982).The Proceedings of the Symposium, edited by J.M.T. Thompson and G.W. Hunt, have been published by Cambridge University Press 1983.
- 82-9 *IUTAM Symposium on Deformation and Failure of Granular Materials* (Delft, The Netherlands, 31 August-3 September 1982).The Proceedings of the Symposium, edited by P.A. Vermeer and H. J. Luger, have been published by A. A. Balkema, Rotterdam, 1982.
- 82-10 *IUTAM Symposium on Structure of Complex Turbulent Shear Flow* (Marseilles, France, 31 August-3 September 1982).The Proceedings of the Symposium, edited by R. Dumas and L. Fulachier, have been published by Springer-Verlag, Berlin, 1983.
- 82-11 *IUTAM Symposium on Metallurgical Applications of Magnetohydrodynamics* (Cambridge, England, 6-10 September 1982).The Proceedings of the Symposium, edited by H. K. Moffatt and M. R. E. Proctor, have been published by The Metals Society, London, 1984.

82-12 *IUTAM Symposium on Random Vibrations and Reliability* (Frankfurt/Oder, GDR, 31 October-6 November 1982).The Proceedings of the Symposium, edited by K. Hennig, have been published by Akademie-Verlag, Berlin, 1983.

1981

81-1 *IUTAM / IUPAP Symposium on Interaction of Particles in Colloidal Dispersions* (Canberra, Australia, 16-21 March 1981).The Proceedings of the Symposium, edited by B.W. Ninham, J.T.G. Overbeek and A.C. Zettlemeyer, have been published in "Advances in Colloid and Interface Science", Vol. 16 and 17 (1982).

81-2 *IUTAM Symposium on Unsteady Turbulent Shear Flows* (Toulouse, France, 5-8 May 1981).The Proceedings of the Symposium, edited by R. Michel, J. Cousteix and R.Houdeville, have been published by Springer-Verlag, Berlin, 1981.

81-3 *IUTAM Symposium on Mechanics and Physics of Bubbles in Liquids* (Pasadena, California, 15-19 June 1981).The Proceedings of the Symposium, edited by L. van Wijngaarden, have been published by Martinus Nijhoff Publishers, The Hague, 1982.
ISBN 90-247-2625-5.

81-4 *IUTAM / IUGG Symposium on Intense Atmospheric Vortices* (Reading, England, 14-17 July 1981).The Proceedings of the Symposium, edited by L. Bengtsson and J. Lighthill, have been published by Springer-Verlag, Berlin, 1982.

81-5 *IUTAM Symposium on Stability in the Mechanics of Continua* (Nnmbrecht, FRG, 31 August-4 September 1981).The Proceedings of the Symposium, edited by F.H. Schroeder, have been published by Springer-Verlag, Berlin, 1982.

81-6 *IUTAM Symposium on High Temperature Gas Dynamics* (Liblice, Czechoslovakia, 15-19 September 1981).The Proceedings of the Symposium, edited by M. Pechal, have been published by the Institute of Thermomechanics, Czechoslovak Academy of Sciences, Prague, Czechoslovakia.

1980

- 80-1 *IUTAM Symposium on Non-linearities in Structural Analysis* (Senlis, France, 27-30 May 1980).The Proceedings of the Symposium, edited by J. Hult and J. Lemaitre, have been published by Springer-Verlag, Berlin 1981.
- 80-2 *IUTAM Symposium on Three-Dimensional Constitutive Relations and Ductile Fracture* (Dourdan, France, 2-5 June 1980).The Proceedings of the Symposium, edited by S. Nemat-Nasser, have been published by North-Holland Publishing Company, Amsterdam 1981.
- 80-3 *IUTAM Symposium on Finite Elasticity* (Bethlehem, Pennsylvania, USA, 11-15 August 1980).The Proceedings of the Symposium, edited by D.E. Carlson and R.T. Shield, have been published by Martinus Nijhoff Publishers, The Hague-Boston-London, 1982. ISBN 90-247-2629-8.
- 80-4 *Third IUTAM Symposium on Creep in Structures* (Leicester, England, 8-12 September 1981).The Proceedings of the Symposium, edited by A.R.S. Ponter and D.R. Hayhurst, have been published by Springer-Verlag, Berlin, 1981.
- 80-5 *ICHMT / IUTAM Symposium on Heat and Mass Transfer and the Structure of Turbulence* (Dubrovnik, Yugoslavia, 6-10 October 1980).The Proceedings of the Symposium, edited by Z.P. Zaric, have been published by Hemisphere Publishing Corporation, Washington, DC, 1982.

1979

- 79-1 *IUTAM Symposium on Structural Control* (Waterloo, Ontario, Canada, 4-7 June 1979).The Proceedings of the Symposium, edited by H.H.E. Leipholz, have been published by North-Holland Publishing Company, Amsterdam-New York-Oxford, 1980.
- 79-2 *IUTAM Symposium on the Physics and Mechanics of Ice* (Copenhagen, Denmark, 6-10 August 1979).The Proceedings of the Symposium, edited by P. Tryde, have been published by Springer-Verlag, Berlin-Heidelberg-New York, 1980.

- 79-3 *IUTAM / ICA / AIAA Symposium on Mechanics of Sound Generation in Flows* (Göttingen, Germany, 28-31 August 1979).The Proceedings of the Symposium, edited by E. A. Müller, have been published by Springer-Verlag, Berlin, 1979.
- 79-4 *IAHR / IUTAM Symposium on Practical Experiences with Flow-Induced Vibrations* (Karlsruhe, Germany, 3-6 September 1979).The Proceedings of the Symposium, edited by E. Naudascher and D. Rockwell, have been published by Springer-Verlag, Berlin-Heidelberg-New York, 1980.
- 79-5 *IUTAM Symposium on Approximation Methods for Navier-Stokes Problems* (Paderborn, Germany, 9-15 September 1979).The Proceedings of the Symposium, edited by R. Rautmann, have been published by Springer-Verlag, Berlin-Heidelberg-New York, 1980 (Lecture Notes in Mathematics nr. 771).
- 79-6 *IUTAM Symposium on Optical Methods in Mechanics of Solids* (Poitiers, France, 10-14 September 1979).The Proceedings of the Symposium, edited by A. Lagarde, have been published by Sijthoff & Noordhoff, Alphen aan den Rijn, The Netherlands 1981.
- 79-7 *IUTAM Symposium on Laminar-Turbulent Transition* (Stuttgart, Germany, 16-22 September 1979).The Proceedings of the Symposium, edited by R. Eppler, have been published by Springer-Verlag, Berlin-Heidelberg-New York, 1980.

1978

- 78-1 *Third IUTAM Symposium on Shell Theory* (Tbilisi, USSR, 22-28 August 1978).The Proceedings of the Symposium, edited by W.T. Koiter and G.K. Mikhailov, have been published by North-Holland Publishing Company, Amsterdam-New York-Oxford 1980.
- 78-2 *IUTAM / IMU Symposium on Group Theoretical Methods in Mechanics* (Novosibirsk, USSR, 25-29 August 1978).The Proceedings of the Symposium, edited by N.H. Ibragimov and L.V. Ovsjannikov, have been published by the USSR Academy of Sciences, Siberian Branch, 1978.

- 78-3 *IUTAM Symposium on Non-Newtonian Fluid Mechanics* (Louvain-la-Neuve, Belgium, 28 August-1 September 1978).The Proceedings of the Symposium, edited by K. Walters and M. J. Crochet, have been published in the "Journal of Non-Newtonian Fluid Mechanics", Vol. 5 (1979).
- 78-4 *IUTAM Symposium on Metal Forming Plasticity* (Tutzing, FRG, 28 August-3 September 1978).The Proceedings of the Symposium, edited by H. Lippmann, have been published by Springer-Verlag, Berlin, 1979.
- 78-5 *IUTAM Symposium on Variational Methods in the Mechanics of Solids* (Evanston, Illinois, USA, 11-13 September 1978).The Proceedings of the Symposium, edited by S. Nemat-Nasser, have been published by Pergamon Press, Oxford, 1980.

1977

- 77-1 *IUTAM Symposium on High Velocity Deformation of Solids* (Tokyo, Japan, 24-27 August 1977).The Proceedings of the Symposium, edited by K. Kawata and J. Shioiri, have been published by Springer-Verlag, Berlin, 1978.
- 77-2 *IUTAM Symposium on Dynamics of Multibody Systems* (Munich, FRG, 29 August-3 September 1977).The Proceedings of the Symposium, edited by K. Magnus, have been published by Springer-Verlag, Berlin, 1978.
- 77-3 *IUTAM Symposium on Modern Problems in Elastic Wave Propagation* (Evanston, Illinois, USA, 11-15 September 1977).The Proceedings of the Symposium, edited by J. Miklowitz and J.D. Achenbach, have been published by John Wiley & Sons, New York, 1978.
- 77-4 *IUTAM Symposium on Dynamics of Vehicles on Roads and Tracks* (Vienna, Austria, 19-23 September 1977).The Proceedings of the Symposium, edited by A. Slibar and H. Springer, have been published by Swets & Zeitlinger, Amsterdam, 1978.

77-5 *IUTAM / IUGG Symposium on Monsoon Dynamics* (Delhi, India, 5-9 December 1977).The Proceedings of the Symposium, edited by J. Lighthill and R.P. Pearce, have been published by Cambridge University Press, Cambridge, England, 1981.

1976

76-1 *IUTAM Symposium on Structure of Turbulence and Drag Reduction* (Washington, D.C., USA, 7-12 June 1976).The Proceedings of the Symposium, edited by F.N. Frenkiel, M.T. Landahl and J.L.Lumley, have been published by the American Institute of Physics as Part II of *The Physics of Fluids*, Vol. 20, No. 10, 1977.

76-2 *IUTAM Symposium on Stochastic Problems in Dynamics* (Southampton, UK, 19-23 July, 1976).The Proceedings of the Symposium, edited by B.L. Clarkson, have been published by Pitman Publishing Ltd., London, 1977.

76-3 *IUTAM Symposium on Surface Gravity Waves in Water of Varying Depth* (Canberra, Australia, 20-25 July 1976).The Proceedings of the Symposium, edited by D.G. Provis and R. Radok, have been published by Springer-Verlag, Berlin, 1977 as Vol. 64 in the series *Lecture Notes in Physics*.

76-4 *IUTAM Symposium on Aeroelasticity in Turbomachines* (Paris, France, October 18-22, 1976).The Proceedings of the Symposium have been published by Societe Francaise de Mecaniciens as a special issue of "*Revue Francaise de Mecanique*", Paris, 1976.

1975

75-1 *IUTAM Symposium on the Dynamics of Vehicles on Roads and Railway Tracks* (Delft, The Netherlands, August 18-22, 1975).The Proceedings of the Symposium, edited by H. Pacejka, have been published by Swets and Zeitlinger B.V., Amsterdam, 1976.

75-2 *IUTAM / IUPAP Symposium on Biodynamics of Animal Locomotion* (Cambridge, UK, 1-5 September 1975).The Proceedings of the Symposium, edited by T.J. Pedley, have been published by Academic Press, London 1977, under the title "*Scale Effects in Animal Locomotion*".

75-3 *Joint IUTAM / IMU Symposium on Applications of Methods of Functional Analysis to Problems in Mechanics* (Marseilles, France, September 1-6, 1975).The Proceedings of the Symposium, edited by P. Germain and B. Nayroles, have been published by Springer-Verlag, Berlin, 1976.

75-4 *Second IUTAM Symposium Transsonicum* (Göttingen, FRG, 8-13 September 1975).The Proceedings of the Symposium, edited by K. Oswatitsch and D. Rue, have been published by Springer-Verlag, Berlin, 1976.

1974

74-1 *IUTAM Symposium on Buckling of Structures* (Harvard University, Cambridge, Massachusetts, USA, June 17-21, 1974).The Proceedings of the Symposium, edited by B. Budiansky, have been published by Springer-Verlag, Berlin, 1976.

74-2 *Joint COSPAR / IAU / IUTAM Symposium on Satellite Dynamics* (Sao Paulo, Brazil, June 19-21, 1974).The Proceedings of the Symposium edited by G.E.O. Giacaglia have been published by Springer-Verlag, Berlin, 1975.

74-3 *IUTAM Symposium on Dynamics of Rotors* (Lyngby, Denmark, August 12-16, 1974).The Proceedings of the Symposium, edited by F.I. Niordson, have been published by Springer-Verlag, Berlin, 1975.

74-4 *IUTAM Symposium on the Mechanics of the Contact between Deformable Bodies* (Enschede, The Netherlands, August 20-23, 1974).The Proceedings of the Symposium, edited by A.D. de Pater and J.J. Kalker, have been published by Delft University Press, 1975.

74-5 *IUTAM Symposium on the Mechanics of Visco-Elastic Media and Bodies* (Gothenburg, Sweden, September 2-6, 1974).The Proceedings of the Symposium, edited by J. Hult, have been published by Springer-Verlag, Berlin, 1975.

1973

- 73-1 *Second IUTAM / IUGG Symposium on Turbulent Diffusion in Environmental Pollution* (Charlottesville, Virginia, USA, April 8-14, 1973).The Proceedings of the Symposium, edited by F.N. Frenkiel and R.E. Munn, have been published in "Advances in Geophysics", Vol. 18 A and Vol. 18 B, Academic Press, 1974.
- 73-2 *IUTAM Symposium on Optimization in Structural Design* (Warsaw, Poland, August 21-25, 1973).The Proceedings of the Symposium, edited by A. Sawczuk and Z. Mrz, have been published by Springer-Verlag, Berlin, 1975.
- 73-3 *Joint IAU / IUTAM Symposium on the Stability of the Solar System and of Small Stellar Systems* (Warsaw, Poland, September 5-8, 1973).The Proceedings, edited by Y. Kozai, have been published by D. Reidel Publishing Company, Dordrecht (The Netherlands).
- 73-4 *IUTAM Symposium on Photoelastic Effect and its Applications* (Brussels, Belgium, September 9-14, 1973).The Proceedings of the Symposium, edited by J. Kestens, have been published by Springer-Verlag, Berlin, 1975.

1972

- 72-1 *Joint IUTAM / ITTC Symposium on the Directional Stability and Control of Bodies Moving in Water* (London, UK, April 17-21, 1972).The Proceedings of the Symposium, edited by R.E.D. Bishop, A.G. Parkinson and R.E. Taylor, have been published as a supplementary issue of the "Journal of Mechanical Engineering Science", London, 1973.
- 72-2 *IUTAM Symposium on Stability of Stochastic Dynamical Systems* (University of Warwick, Coventry, UK, July 11-14, 1972).The Proceedings of the Symposium, edited by R.F. Curtain, have been published by Springer-Verlag, Berlin, 1972.
- 72-3 *IUTAM Symposium on Flow-induced Structural Vibrations* (University of Karlsruhe, Germany, August 14-18, 1972).The Proceedings of the Symposium, edited by E. Naudascher, have been published by Springer-Verlag, Berlin, 1974.

1971

- 71-1 *IUTAM Symposium on Unsteady Boundary Layers* (Quebec, Canada, May 24-28, 1971).The Proceedings of the Symposium, edited by E.A. Eichelbrenner, have been published by Les Presses de l'UniversitT Laval, C.P. 2447, Quebec 2 (Canada), 1972.
- 71-2 *IUTAM Symposium on Non-steady Flow of Water at High Speeds* (Leningrad, USSR, June 22-26, 1971).The Proceedings of the Symposium, edited by L.I. Sedov and G.Yu. Stepanov, have been published by Nauka Publishing House, Moscow (USSR), 1973.
- 71-3 *IUTAM Symposium on Dynamics of Ionized Gases* (Tokyo, Japan, September 13-17, 1971).The Proceedings of the Symposium, edited by J. Lighthill, I. Imai and H. Sato, have been published by University of Tokyo Press, Tokyo (Japan), 1973.

1970

- 70-1 *Second IUTAM Symposium on Creep in Structures* (Gothenburg, Sweden, August 17-21, 1970).The Proceedings of the Symposium, edited by J. Hult, have been published by Springer-Verlag, Berlin (Germany), 1972.
- 70-2 *IUTAM Symposium on High-Speed Computing of Elastic Structures* (Liege, Belgium, August 23-28, 1970).The Proceedings of the Symposium, edited by B. Fraeijs de Veubeke, have been published by Universite Liege (Belgium), 1971.

1969

- 69-1 *IUTAM Symposium on the Flow of Fluid Solid Mixtures* (University of Cambridge, UK, March 24-29, 1969).An account of the scientific developments reported at this Symposium is published in the "Journal of Fluid Mechanics" (1969), Vol. 39, part. 2, pp. 375-405.
- 69-2 *Joint IUTAM / IUPAP Symposium on Electrohydrodynamics* (MIT, Cambridge, USA, March 31-April 2, 1969).A collection of extended abstracts has been assembled and review article by

J.R.Melcher has been published in the "Journal of Fluid Mechanics" (1970), Vol. 40, part. 3, pp. 641-655.

- 69-3 *Joint COSPAR/IAU / IUGG / IUTAM Symposium on the Dynamics of Satellites* (Prague, Czechoslovakia, May 20-24, 1969).The Proceedings of the Symposium edited by M.B. Morandu have been published by Springer-Verlag, Berlin (Germany) 1970.
- 69-4 *IUTAM Symposium on Instability of Continuous Systems* (Karlsruhe, Germany, September 8-12, 1969).The Proceedings of the Symposium edited by H. Leipholz have been published by Springer-Verlag, Berlin (Germany), 1971.
- 69-5 *Vlth Joint IAU / IUTAM Symposium on Cosmical Gas Dynamics* (Crimean Astrophysical Observatory, USSR, September 8-19, 1969).The Proceedings, edited by Dr. Habing, have been published under the title *Interstellar Gas Dynamics*" by D.Reidel, Publishing Company, Dordrecht (The Netherlands), 1970.

1968

- 68-1 *IUTAM Symposium on Thermoelasticity* (East Kilbride, Glasgow, UK, 26-28 June, 1968).The Proceedings, edited by B.A. Boley, have been published by Springer-Verlag, Vienna and New York, 1970.
- 68-2 *IUTAM Symposium on High-Speed Computing in Fluid Dynamics* (Monterey, Cal.,USA, 18-24 August, 1968).The Proceedings, edited by F.N. Frenkiel and Keith Stewartson, have been published in the journal "The Physics of Fluids", Supplement II, Vol. 129, No. 12, Part. II (1969).

1967

- 67-1 *IUTAM Symposium on the Generalized Cosserat Continuum and the Continuum Theory of Dislocations with Applications* (Stuttgart and Freudenstadt, Germany, 28 August-2 September 1967).The Proceedings of the Symposium, edited by E. Kröner, have been published by Springer-Verlag, Berlin (Germany), 1968.

67-2 *Second IUTAM Symposium on Theory of Thin Shells* (Copenhagen, Denmark, 5-9 September 1967).The Proceedings of the Symposium, edited by F.I. Niordson, have been published by Springer-Verlag, Berlin (Germany), 1969.

67-3 *IUTAM Symposium on the Behavior of Dense Media under High Dynamic Pressures* (Paris, France, 11-15 September 1967).The Proceedings of the Symposium, edited by J. Berger, have been published by Dunod, Paris (France), 1968.

1966

66-1 *IUTAM Symposium on Rotating Fluid Systems* (La Jolla, California, USA, 28 March-1 April 1966). A Report on this Symposium has been published by F.P. Bretherton, G.F. Carrier, and M.S. Longuet-Higgins under the title "Report on the IUTAM symposium on rotating fluid systems" in the "Journal of Fluid Mechanics", Vol. 26, part. 2, pp. 393-410 (1966).

66-2 *IUTAM Symposium on Irreversible Aspects of Continuum Mechanics* (Vienna, Austria, 22-25 June 1966).

66-3 *IUTAM Symposium on the Transfer of Physical Characteristics in Moving Fluids* (Vienna, Austria, 27-28 June 1966).The Proceedings of both Symposia 66-2 and 66-3, edited by H. Parkus and L.I. Sedov, have been published in one volume under the title "Irreversible Aspects of Continuum Mechanics – Transfer of Physical Characteristics in Moving Fluids" by Springer-Verlag, Vienna and New York, 1968.

66-4 *Joint IUGG / IUTAM Symposium on Boundary Layers and Turbulence Including Geophysical Applications* (Kyoto, Japan, 19-24 September 1966).The Proceedings of the Symposium, edited by F.K. Bowden, F.N. Frenkiel, and I.Tani have been published in "The Physics of Fluids, supplement 1967", Vol. 10, 9, Part. II, pp. 3-321 (1967).

1965

- 65-1 *Symposium on Recent Advances in Linear Vibration Mechanics* (Paris, France, 13-15 April 1965). Published in "Revue Française de Mécanique" under the title "Recents Progres de la Mécanique des Vibrations Lineaires", numero 13 (1965), pp. 3-58, numero 14 (1965), pp. 3-70, numero 15 (1965), pp. 3-105.
- 65-2 *Joint IUTAM / IAU / COSPAR Symposium on the Trajectories of Artificial Celestial Bodies as Determined from Observation* (Paris, France, 20-30 April 1965). Published by Springer-Verlag, Heidelberger Platz 3, Berlin-Wilmersdorf, West Berlin (Germany), 1966.
- 65-2 *Vth Joint IAU / IUTAM Symposium on Cosmical Gas Dynamics* (Nice, France, 2-15 September 1965). Published under the title "Aerodynamic Phenomena in Stellar Atmospheres" (IAU Symposium series, No. 28), editor R.N. Thomas. Academic Press, London and New York, 1967.

1964

- 64-1 *Symposium sur la Rhéologie et la Mécanique des Sols* (Grenoble, France, 1-8 Avril 1964). Published by Springer-Verlag, Heidelberger Platz 3, Berlin-Wilmersdorf, West Berlin (Germany), 1966.
- 64-2 *Symposium on Concentrated Vortex Motions in Fluids* (Ann Arbor, Michigan, USA, 6-11 July 1964). A brief account by D. Knchemann of the problems discussed has been published in the "Journal of Fluid Mechanics", Vol. 21, part 1, pp. 1-20 (1965). The survey papers have been published in Vol. 7 of "Progress in Aeronautical Sciences", 1966.

1963

- 63-1 *Symposium on Stress Waves in Anelastic Solids* (Providence, Rhode Island, USA, 3-5 April 1963). Published by Springer-Verlag, Heidelberger Platz 3, Berlin-Wilmersdorf, Berlin (Germany), 1964.
- 63-2 *Symposium on Applications of Theory of Functions in Continuum Mechanics* (Tbilisi, USSR, 17-23 September 1963). Proceedings edited by N.I. Muskhelishvili, L.I. Sedov, and G.K. Mikhailov. Published under the title "Applications of the Theory of Functions in Continuum Mechanics,

Vol. 1 Mechanics of Solids, Vol. 2 Fluid and Gas Mechanics, Mathematical Methods" by "Nauka" Publishing House, Moscow (USSR), 1965.

1962

- 62-1 *International Symposium on Second Order Effects in Elasticity, Plasticity and Fluid Dynamics* (Haifa, Israel, 21-27 April 1962). Published by Pergamon Press, Ltd., Jerusalem Academic Press, Ltd., Israel, 1964.
- 62-2 *Symposium sur la Dynamique des Satellites* (Paris, France, 28-30 Mai 1962). Published by Springer-Verlag, Heidelberger Platz 3, Berlin-Wilmersdorf, Berlin (Germany), 1963.
- 62-3 *Symposium on Gyrodynamics* (Celerina, Switzerland, 20-23 August 1962). Published by Springer-Verlag, Heidelberger Platz 3, Berlin-Wilmersdorf, Berlin (Germany), 1963.
- 62-4 *Symposium Transsonicum* (Aachen, Germany, 3-7 September 1962). Published by Springer-Verlag, Heidelberger Platz 3, Berlin-Wilmersdorf, Berlin (Germany), 1964.

1961

- 61-1 *International Symposium on Fundamental Problems in Turbulence and their Relation with Geophysics* (Marseilles, France, 4-9 September 1961, in cooperation with IUGG). Vol. 67, no. 7 A (American Geophysical Union, 1515 Massachusetts Avenue, N.W. Washington 5, D.C., USA). Published in the "Journal of Geophysical Research", Vol. 67, no. 8 (July 1962), pp. 3003-3235.
- 61-2 *International Symposium on Theory of Non-Linear Vibrations* (Kiev, USSR, 12-18 September 1961). Published by the Publishing House of Academy of Sciences of the Ukrainian SSR in Kiev (USSR).

1960

- 60-1 *International Symposium on Magnetohydrodynamics* (Washington, D.C.-Williamsburg, Virginia, USA, 17-23 January 1960). Published by Reviews of Modern Physics, American Institute of Physics, 335 East 45th Street, New York 17, N.Y. (USA).
- 60-2 *Colloquium on Creep in Structures* (Stanford, California, USA, 11-15 July 1960). Published by Springer-Verlag, Heidelberger Platz 3, Berlin-Wilmersdorf, West Berlin (Germany), 1962.
- 60-3 *Fourth Symposium on Cosmical Gas Dynamics* (Varenna, Italy, 18-30 August 1960, in cooperation with IAU). Published by the Italian Physical Society, in the "Supplemento del Nuovo Cimento", Vol. 22, no.1, 1961.

1959

- 59-1 *Symposium on Fluid Mechanics in the Ionosphere* (Ithaca, N.Y., USA, 9-15 July 1959), organized by URSI in cooperation with IUTAM, IUGG and IAU. Published by the American Geophysical Union, 1515 Massachusetts Avenue, N.W., Washington 5, D.C. (USA), in the "Journal of Geophysical Research", Vol. 64 (Dec. 1959), pp. 2037-2041.
- 59-2 *Symposium on Theory of Thin Elastic Shells* (Delft, The Netherlands, 24-28 August 1959), organized by IUTAM. Published by the North-Holland Publishing Company, N.Z. Voorburgwal 68, Amsterdam-C. (The Netherlands), 1960.

1958

- 58-1 *International Symposium on Atmospheric Diffusion and Air Pollution* (Oxford, UK, 24-29 August 1958, in cooperation with IUGG). Published by Academic Press, Inc., 111 Fifth Ave., New York 3, N. Y. (USA), 1959.
- 58-2 *Symposium on Non-Homogeneity in Elasticity and Plasticity* (Warsaw, Poland, 2-9 September 1958), organized by IUTAM. Published by Pergamon Press, Ltd., 4 & 5 Fitzroy Square, London W1 (UK), 1959.

1957

- 57-1 *Third Symposium on Cosmical Gas Dynamics* (Cambridge, Massachusetts, USA, 24-29 June 1957, in cooperation with IAU). Published by *Reviews of Modern Physics*, American Institute of Physics, 335 East 45th Street, New York 17, N.Y. (USA), 1958.
- 57-2 *Symposium on Boundary Layer Research* (Freiburg i. Br., Germany, 26-29 August 1957). Published by Springer-Verlag, Heidelberger Platz 3, Berlin-Wilmersdorf, Berlin (Germany), 1958.

1955

- 55-1 *Colloquium on Fatigue* (Stockholm, Sweden, 25-27 May 1955), organized by IUTAM. Published by Springer-Verlag, Heidelberger Platz 3, Berlin-Wilmersdorf, Berlin (Germany), 1956.
- 55-2 *Colloquium on Deformation and Flow of Solids* (Madrid, Spain, 26-30 September 1955), organized by IUTAM. Published by Springer-Verlag, Heidelberger Platz 3, Berlin-Wilmersdorf, Berlin (Germany), 1956.

1954

- 54-1 *Colloquium on Photoelasticity and Photoplasticity* (Bruxelles, Belgium, 29-31 July 1954). Published by Imprimerie Dioncre, Chaussée de Boondael, 602-602a, Ixelles-Bruxelles (Belgium).

1953

- 53-1 *2nd Symposium on Gas Dynamics of Interstellar Clouds*, Cambridge (UK), 1953, in cooperation with IAU. "Gas Dynamics of Cosmic Clouds, edited by H.C. van de Hulst and J.M. Burgers (IAU Symposium series, no. 2), Amsterdam". Published by North-Holland Publishing Company, Amsterdam (The Netherlands), 1953.

1952

52-1 *Colloque Massau*, tenu a Bruxelles, Belgique, les 25-29 avril 1952, organise par le Comite Massau, avec le concours de l'IUTAM. Association des Ingenieurs de Gand, rue de la Victoire, Bruxelles (Belgium).

1951

51-1 *Colloque sur les Vibrations Non-Lineaires*, tenu a l'île de Porquerolles, Var, France, 18-22 september 1951, organized by IUTAM and URSI. Publications scientifiques numero 281, Ministere de l'Air, 4, avenue de la Porte d'Issy, Paris XVe (France), 1953.

1950

50-1 *Colloque international de Mecanique*, Pallanza, Lago Maggiore, Italia, 23-24 juin 1950, organized by IUTAM. Published by the Consiglio Nazionale delle Ricerche, Roma, Italia, in "La Ricerca Scientifica", annee 20, numero 12, pp. 1917-1942, dec. 1950.

50-2 *Colloquium on Plastic Flow and Deformation within the Earth*, Hershey, Pennsylvania, USA, September 12-14, 1950, organized by IUTAM and IUGG. Published by the American Geophysical Union in the "Transactions American Geophysical Union", vol. 32, no. 4, pp. 497- 543, 1951. A few copies can be obtained from the Secretary, American Geophysical Union, 1530, P. Street, N. W., Washington, D.C. (USA).

1949

49-1 *Problems of Cosmical Aerodynamics*, Proceedings of the Symposium on the Motion of Gaseous Masses of Cosmical Dimensions held at Paris, France, August 16-19, 1949, organized by IUTAM and IAU. Published by: Central Air Documents Office, Army-Navy-Air-Force, UB Building, Dayton 2, Ohio (USA).