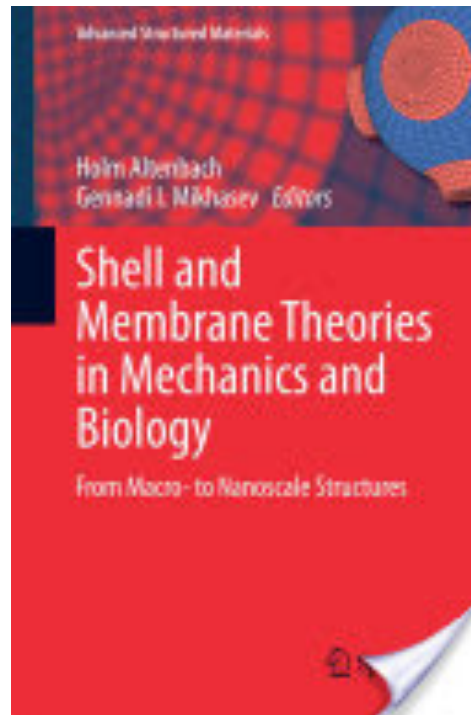




**Professor Holm Altenbach**



**From:** Holm Altenbach and Gennadi Mikhasev (Editors), Shell and Membrane Theories in Mechanics and Biology: from Macro- to Nanoscale Structures, Springer, 2014, 321 pages

See:

[http://www.ironix-conferences.com/CV\\_Altenbach.pdf](http://www.ironix-conferences.com/CV_Altenbach.pdf)  
<https://www.ovgu.de/Altenbach-kat-vita.html>  
<http://tm.iw.uni-halle.de/mitarbeiter/altenbach/?lang=en>  
[https://www.researchgate.net/profile/Holm\\_Altenbach/info](https://www.researchgate.net/profile/Holm_Altenbach/info)

Mechanical Engineering  
Martin-Luther-University Halle-Wittenberg  
Otto-von-Guericke-University Magdeburg

**Academic History/Honors:**

1974 - 1980 Leningrad Polytechnic Institute, Faculty of Physics and Mechanics  
1980 Diploma (approx MSc.) In "Dynamics and Strength of Machines" (Diploma Thesis: Stability of a Three-layered Strip, Final Grade: With distinction)  
1980 - 1995 Otto-von-Guericke-University Magdeburg: Assistant, Senior Assistant  
1983 Leningrad Polytechnic Institute: Candidate of Engineering Sciences (Dr.-Ing, PhD approx..) - A Timoshenko-type theory for inhomogeneous in the Thickness Direction Elastic Shells (supervisor Prof. Dr. VA Pal'mov)  
1984 Facultas docendi in "Engineering Mechanics" at the Magdeburg University, Faculty of Mechanical Engineering  
1987 Leningrad Polytechnic Institute Doctor of Engineering Sciences (Dr.sc.techn, habilitation.) - The Direct Approach in the Theory of Viscoelastic Shells  
1992 Krupp Award (Visiting Scientist at the Ruhr-University Bochum, Faculty of Civil Engineering)

1993 Private docent (approx. Lecturer) at the University of Magdeburg in Mechanics of Materials  
1995 Appointment at the Lausanne Polytechnic (Switzerland) - Professorship in Structural Mechanics  
1995 Extraordinary Professor at the University of Magdeburg  
1995 Appointment at the Martin-Luther-University Halle-Wittenberg - Professorship in Engineering Mechanics  
1991 - 1996 Visiting Professor at the Kharkov Polytechnic Institute (Ukraine, 1991, 1996), at the University of Technology in Bratislava (1993, Slovakia) and at the University of Technology Riga (1995, Latvia)  
1996 - 2011 Full Professor (C4) at the Martin-Luther-University Halle-Wittenberg  
1997 - 1998 Acting Director of the Institute of Materials Science at the University of Halle-Wittenberg  
1998 - 2000 Vice-dean of the Faculty of Engineering Sciences at the University of Halle-Wittenberg  
2000 - 2006 Dean of the Faculty of Engineering Sciences  
2006 - 2011 Acting Director of the Centre of Engineering Sciences (Which has a Faculty status)  
2003 Gold Medal of the Faculty of Mechanical Engineering (University of Technology Lublin)  
2004 - 2015 Managing Editor of the Journal of Applied Mathematics and Mechanics (ZAMM)  
2004 Semko Medal (Kharkov State University of Technology)  
2005 - to date Editor-in-Chief of the Journal of Applied Mathematics and Mechanics  
2008 Doctor honoris causa (Dr.hc) at the National Technical University "Kharkov Polytechnic Institute"  
2011- to date Advisory Editor of the journal Mechanics of Composite Materials  
2011 - to date Full Professor (C4) at the Otto-von-Guericke-University Magdeburg  
2011 Fellow of the Japanese Society for the Promotion of Sciences (visiting scientist at Nagoya university)  
2014 Doctor honoris causa (Dr.hc) at the Ovidius University Constanta (Romania)  
2015 - to date Acting Director of the Institute of Materials Science at the University of Halle-Wittenberg  
2015 - to date Associate Editor of the journal Mechanics of Composite Materials  
2016 Doctor honoris causa (Dr.hc) at the Vekua Institute, University Tbilisi (Georgia)

### **Selected Publications:**

#### **Books:**

Theories of plates and shells: critical review and new applications, edited by Reinhold Kienzler, Holm Altenbach and Ingrid Ott, 2004, Springer, ISBN 3-540-20997-2  
K. Naumenko and H. Altenbach, Modeling of Creep for Structural Analysis (Springer, Berlin-Heidelberg, 2007).  
Holm Altenbach and Victor A. Eremeyev (editors), Shell-like structures: Non-classical theories and applications (Google eBook), Springer, 2011, 750 pages  
Holm Altenbach and Gennadi Mikhasev (Editors), Shell and Membrane Theories in Mechanics and Biology: from Macro- to Nanoscale Structures, Springer, 2014, 321 pages

#### **Journal Articles:**

H. Altenbach, O. Morachkovsky, K. Naumenko and A. Sychov, "Geometrically nonlinear bending of shells and plates under creep-damage", Archive of Applied Mechanics, Vol. 67, No. 5, pp 339-352, June 1997  
Altenbach, H., "Theories for Laminated and Sandwich Plates. A Review", Mechanics of Composite Materials, vol. 34, no. 3, 1998, pp. 243-252.  
Korjakin A, Rikards R, Chate A, Altenbach H. Analysis of free damped vibrations of laminated composite conical shells. Composite Struct 1998; 41:39-47.  
Altenbach H., An alternative determination of transverse shear stiffnesses for sandwich and laminated plates, Int. Journal of Solids & Structures 37, 2000, 3503–3520  
Altenbach J., Altenbach H., Trends in engineering plate theories, Maintenance & Reliability, Polish Academy of Sciences Quarterly 4/2001, 2001, 21–30  
Meenen J., Altenbach H.: A consistent deduction of von Kármán-type plate theories from three-dimensional

nonlinear continuum mechanics. *Acta Mech.* 147, 1–17 (2001)

Holm Altenbach and Konstantin Naumenko, “Shear Correction Factors in Creep-Damage Analysis of Beams, Plates and Shells”, *JSME International Journal Series A*, Vol. 45, No. 1 (2002), pp.77-83

Altenbach H, Meenen J. Single layer modelling and effective stiffness estimations of laminated plates. In: *Modern trends in composite laminates mechanics*, ICMS 448. Wien New York: Springer Verlag, 2003. p 1-68.

H. Altenbach and P.A. Zhilin, “The theory of simple elastic shells”, in *Theories of plates and shells: critical review and new applications*, edited by Reinhold Kienzler, Holm Altenbach and Ingrid Ott, 2004, Springer, ISBN 3-540-20997-2

Holm Altenbach and Konstantin Naumenko, “Long Term Creep Analysis of Pipe Bends in a Steam Transfer Line at Elevated Temperature”, *Key Engineering Materials (Volumes 340 - 341)*, June 2007, pp. 795-802

Altenbach, H. and Eremeyev, V.A. (2008) Analysis of the viscoelastic behavior of plates made of functionally graded materials. *ZAMM – Journal of Applied Mathematics and Mechanics*, 88(5), 332-341.

J. Altenbach, H. Altenbach, V. Eremeyev, On generalized Cosserat-type theories of plates and shells: a short review and bibliography, *Archive of Applied Mechanics* 80 (2010) 73–92.

Altenbach, H., Eremeyev, V.A.: *Shell-like structures: non classical theories and applications*. In: Altenbach, H., Eremeyev, V.A. (eds.) *Series Advanced Structured Materials*, vol. 15. Springer, Berlin (2011)

H. Altenbach, V.A. Eremeyev, On the shell theory on the nanoscale with surface stresses, *International Journal of Engineering Science* 49 (2011) 1294–1301.

Mikhasev, G.I., Altenbach, H., Korchevskaya, E., 2014, On the influence of the magnetic field on the eigenmodes of thin laminated cylindrical shells containing magnetorheological elastomer, *Composite Structures*, 113, pp. 186-196.

J. Eisenträger, K. Naumenko, H. Altenbach, J. Meenen, A user-defined finite element for laminated glass panels and photo-voltaic modules based on a layer-wise theory, *Composite Structures*, 133 (2015), 265-277.