

## **Professor Bodo Geier**

Selected Publications (this list obtained from [www.en.scientificcommons.org/b\\_geier](http://www.en.scientificcommons.org/b_geier) I think many of the dates of the publications are incorrect.):

Geier, B., Zimmermann, R., On the influence of laminate stacking on buckling of composite cylindrical shells subjected to axial compression (2002)  
The buckling loads of laminated cylinders can strongly depend on the position of the differently oriented layers within the shell. This paper deals with two different laminated orthotropic cylinders...

Hühne, Ch., Zimmermann, R., Rolfes, R., Geier, B., Sensitivities to Geometrical and Loading Imperfections on Buckling of Composite Cylindrical Shells (2002)  
Thin-walled shell structures prone to buckling are sensitive to imperfections. The influence of loading and geometrical imperfections on buckling loads of unstiffened composite cylindrical shells is...

Hühne, Ch., Zimmermann, R., Rolfes, R., Geier, B., Influence of Loading Conditions on Buckling of Fibre Composite Cylindrical Shells, IB 131-2002/20, Braunschweig (2002)

Geier, B., A Method to Compute Koiter's b-Factor of Anisotropic Panels (2002)  
In his pioneering work W.T. Koiter drew attention to the initial postbuckling behaviour as a means to explain and quantify the discrepancy between the theoretical buckling load of thin shells and...

Farshad, M., Geier, B., Zimmermann, R., Buckling loads of CFRP composite cylinders under axial and torsional loading - experiments and computations (2001)  
During the years 1994 through 1999, a European research project under the title 'Design and Validation of Imperfection-Tolerant Laminated Shells' (DEVILS) was carried out. In this project, 11...

Geier, B., Zimmermann, R., The Imperfection Sensitivity of Axially Compressed Thin-Walled Circular Cylinders - Attempts to Define a Measure (1999)

Esslinger, M., Geier, B., Buckling And Postbuckling Behavior Of Discretely Stiffened Thin-Walled Circular Cylinders, (1998)  
Experimental results on the buckling and postbuckling behavior of stiffened thin-walled circular cylinders with large spacing of the stiffeners are presented. It is pointed out that the postbuckling...

Geier, B., The Imperfection Sensitivity of Axially Compressed Thin-Walled Circular Cylinders - Attempts to Define a Measure - (1998)

Geier, B., Report on visits to the 39th AIAA SDM conference at Long Beach, California and to NASA Langley Research Center at Hampton, Virginia (1998)

Geier, B., Buckling of Orthotropic Circular Cylinders under Axial Membrane Forces Varying in Circumferential Direction (1998)

Geier, B., Non - Dimensional Parameters Governing Buckling of Orthotropic Cylinders Subjected to Axial Compression And External / Internal Pressure (1998)

Geier, B., Buckling Of Orthotropic Cylindrical Shells And Panels ---Revised and Augmented Edition--- (1998)

Seibel, M., Geier, B., Zimmermann, R., Eschenauer, H., Optimization and experimental investigation of stiffened axially compressed CFRP-panels (1998)

Geier, B., Singh, G., Some Simple Solutions for Buckling Loads of Thin and Moderately Thick Cylindrical Shells and Panels Made of Laminated Composite Material (1997)

Geier, B., Buckling of orthotropic circular cylinders under axial membrane forced varying in circumferential direction. (1997)

Geier, B., Buckling of orthotropic cylindrical shells and panels: The "classical" solution. (1996)

Klein, H., Geier, B., Goetting, H.C., Hillger, W., Pabsch, A., Zimmermann, R., Buckling testing with curved, stiffened CFRP panels damaged by impact. (1996)

Gaedke, M., Geier, B., Klein, H., Rohwer, K., Zimmermann, R., Damage influence on the buckling load of CFRP stringer stiffened panels (1996)

Geier, B., Berechnung des dynamischen Beulens ebener und gekruemmter Platten, aufbauend auf dem Programm BEOS. (1996)

Geier, B., Gajbir Singh, Some simple solutions for buckling loads of thin and moderately thick cylindrical shells and panels made of laminated composite material. (1995)

Seibel, M., Geier, B., Structural and sensitivity analysis and optimization of stiffened plates and shells. (1995)

Geier, B., Das Beulverhalten von Platten und Schalen. (1995)

Geier, B., Eigenspannungen und Verformungen infolge Temperaturaenderung und Feuchtigkeitsaufnahme. (1995)

Geier, B., Schichtenverbunde unter Membran- und Biegebelastung. (1995)

Geier, B., Schichtenverbunde und ihre Membranbeanspruchung. (1995)

Gaedke, M., Geier, B., Goetting, H.-Ch., Klein, H., Rohwer, K., Zimmermann, R., Damage influence on the buckling load of CFRP stringer stiffened panels. (1995)

Geier, B., ETH-Schalenbauteil 176 - Ergebnisse einer Berechnung mit BEOS. (1994)

Geier, B., Schichtenverbunde unter Membran- und Biegebelastung. (1994)

Geier, B., Schichtenverbunde unter Membranbeanspruchung. (1994)

Herrmann, A.S., Geier, B., Rechenbeispiele zur Verbundrechnung. (1994)

Geier, B., Das Beulverhalten von Platten und Schalen. (1994)

Geier, B., Versagenskriterien fuer Verbunde. (1994)

Gajbir Singh, Geier, B., Initial post-buckling analysis of anisotropic panels. (1994)

Gajbir Singh, Geier, B., A computationally economic approach for the analysis of imperfect/or damaged structures. (1994)

Gajbir Singh, Geier, B., Some simple solutions for stability design of thick orthotropic cylindrical shells and panels. (1994)

Engelhardt, A., Geier, B., Die Ermittlung von Beullasten von Platten aus geschichteten Faser-Matrix-Verbunden bei Belastung durch Schub. (1994)

Geier, B., Klein, H., Zimmermann, R., Experiments on buckling of CFRP cylindrical shells under non-uniform axial load. (1994)

Geier, B., Stability and optimization of fibre-reinforced structures. (1993)

Geier, B., Damage mechanics of composite shells. (1993)

Geier, B., Reise von Prof.Dr.H.W.Bergmann und Dr.B.Geier nach Indien im Mai 1993. (1993)

Geier, B., Potential energy of an internal pressure acting on a cylindrical shell. (1993)

Madhusudhan, B.S., Geier, B., Zimmermann, R., A simple procedure for computing eigenfrequencies and buckling loads for simple supported orthotropic sandwich panels including the effect of stringer stiffeners. (1993)

Geier, B., Beruecksichtigung von Dehnungen infolge Temperaturaenderung und Feuchtigkeitsaufnahme in der Schichtentheorie. (1993)

Geier, B., Verbunde unter Membranbeanspruchung. (1992)

Geier, B., Balken mit mehrzelligen Hohlquerschnitten. (1992)

Geier, B., Schichtenverbunde unter Membran- und Biegebelastung. (1992)

Geier, B., Beruecksichtigung von Temperatur und Feuchteänderung in der Schichtentheorie. (1992)

Geier, B., Beulverhalten von Platten und Schalen: Ueberblick, Grundlagen. (1992)

Rohwer, K., Geier, B., Herrmann, A.S., Demonstration von Rechenbeispielen. (1992)

Geier, B., Composite laminates stiffnesses and their sensitivities. (1992)

Geier, B., Institut fuer Strukturmechanik - eine Standortbestimmung. (1992)

Geier, B., Computation of buckling loads of thin anisotropic cylinders and panels based on analytical solution. (1992)

Geier, B., Balken mit mehrzelligen Hohlquerschnitten. (1991)

Geier, B., Theorie der Schichtverbunde unter Membran- und Biegebelastung. (1991)

Geier, B., Beruecksichtigung von Temperatur- und Feuchteänderungen in der Schichtentheorie. (1991)

Geier, B., Beulverhalten von Platten und Schalen: Ueberblick, Grundlagen (1991)

Geier, B., Einfuehrung, Verbunde unter Membranbeanspruchung (1991)

Geier, B., Beullasten von unversteiften und versteiften orthotropen Platten, Zylinderschalen und Sandwichpanels, Imperfektionseinfluss. (1991)

Geier, B., Buckling and Postbuckling Analysis of Plates and Shells Made of Composite Materials. (1991)

Esslinger, M., Geier, B., Poblitzki, G., Verification of computer programs by discussion of the results. (1991)

Geier, B., Klein, H., Zimmermann, R., Buckling tests with axially compressed unstiffened cylindrical shells made from CFRP (1991)

Geier, B., Rohwer, K., Remarks on the effective-width concept for orthotropic thin shells. (1991)

Geier, B., Storing Symmetrical Matrices. (1991)

Geier, B., Rohwer, K., Schourek, K., BEOS 2.2. Table of Input Data. (1991)

Geier, B., Berechnung der Verformung eines vorgespannten Gewebes ueber dreieckigem oder viereckigem Grundriss unter Normaldruck. (1991)

Geier, B. (ed.), Collected contributions to the buckling and postbuckling behaviour and design of composite panels.GARTEUR TP 062. (9 Einzelbeitraege) (1991)

Geier, B., Die Konstruktion von Beispielen fuer das allgemeine Eigenwertproblem. (1990)

Geier, B., Rohwer, K., Stabilität von Leichtbaustrukturen (1990)

Geier, B., Rohwer, K., Analytical Investigation of the Buckling Behaviour of Laminated Anisotropic Plates and Shells. (1990)