



Professor Christos Kassapoglou

The right-most image above is from: D. J. Baker and C. Kassapoglou, Post buckled composite panels for helicopter fuselages: Design, analysis, fabrication and testing, Proc. American Helicopter Society, Hampton Roads Chapter, Structures Specialists Meeting, Williamsburg, Virginia, 2001.

See:

<https://www.tudelft.nl/en/ae/organisation/our-full-professors/profile-of-a-professor/christos-kassapoglou/>
https://www.researchgate.net/profile/Christos_Kassapoglou

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Brief Autobiography:

I studied Aeronautics and Astronautics at MIT. After my two masters, in Mechanical Engineering and in Aeronautics and Astronautics (1984), I started to focus on structures, especially composite materials. After graduating, I worked at various companies in the aerospace industry: at Wichita Kansas Beech Aircraft (until 1987), at Sikorsky Aircraft (until 2001) and then as a consultant for various American airline companies, from Athens. I joined TU Delft in 2008. To my surprise, in 2012 I was proclaimed Teacher of the Year. When I asked for this position [at TU Delft], I was skeptical at first. I think teaching is a big responsibility and did not know if I could do it and would like it. But I think it is great. What makes Delft special is that we not only use science, but also try to close the gap between science and industry. When I was still working in the US, I already knew the reputation of TU Delft.

Selected Publications:

Books:

Christos Kassapoglou, Design and Analysis of Composite Structures with Applications to Aerospace Structures (2nd Ed.), Wiley, 2013, 410 pages

Kassapoglou, C. (2015), Modeling the Effect of Damage in Composite Structures, Wiley & Sons Ltd, West Sussex, U.K.

Journal Articles, etc:

Lagace, P. A., Brewer, J. C., and Kassapoglou, C., "The Effect of Thickness on Interlaminar Stresses and Delamination", Journal of Composites Technology and Research, No. Fall, 1986, pp. 81-87.

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- Christos Kassapoglou, Paul J. Jonas and Ric Abbott, "Compressive strength of composite sandwich panels after impact damage: An experimental and analytical study", *Journal of Composites Technology & Research*, Vol. 10, pp 65-73, 1988
- Christos Kassapoglou. Buckling, Post-Buckling and Failure of Elliptical Delaminations in Laminates under Compression, *Composite Structures* 9 (1988), pp. 139 – 159
48. Kassapoglou, C., "Determination of Interlaminar Stresses in Composite Laminates under Combined Loads," *Journal of Reinforced Plastics and Composites*, Vol. 9, January 1990, pp. 33-58.
- . Kassapoglou, C., and DiNicola, A. J., "Efficient Stress Solutions at Skin Stiffener Interfaces of Composite Stiffened Panels," AIAA Paper 91-1199, Proceedings, AIAA/ASME/ASCE/AHS/ASC 32nd Structures, Structural Dynamics, and Materials Conference, Baltimore, MD, April 8-10, 1991, AIAA, Washington, DC, 1991, pp. 1444-1452. Also see AIAA Journal, Vol. 30, No. 7, July 1992
44. Kassapoglou, C., and DiNicola, A. J., "Efficient Stress Solutions at Skin Stiffener Interfaces of Composite Stiffened Panels," *AIAA Journal*, Vol. 30, No. 7, July 1992, pp. 1833-1839.
- Christos Kassapoglou, "Calculation of stresses at skin-stiffener interfaces of composite stiffened panels under shear loads", *International Journal of Solids and Structures*, Vol. 30, No. 11, 1993, pp. 1491-1501
51. Kassapoglou, C., "Stress Determination at Skin-Stiffener Interfaces of Composite Stiffened Panels under Generalized Loading," AIAA Paper 93-1509, Proceedings, AIAA/ASME/ASCE/AHS/ASC 34th Structures, Structural Dynamics, and Materials Conference, La Jolla, CA, April 19-22, 1993, AIAA, Washington, DC, 1993, pp. 1753-1760. Also see *Journal of Reinforced Plastics and Composites*, Vol. 13, 555, 1994
49. Kassapoglou, C., "Calculation of Stresses at Skin-Stiffener Interfaces of Composite Stiffened Panels under Shear Loads," *International Journal of Solids and Structures*, Vol. 30, No. 11, 1993, pp. 1491-1501.
50. Kassapoglou, C., "Stress Determination at Skin-Stiffener Interfaces of Composite Stiffened Panels under Generalized Loading," *Journal of Reinforced Plastics and Composites*, Vol. 13, June 1994, pp. 555-572.
- Kassapoglou, C., Fantle, S. C., and Chow, J. C., 'Wrinkling of Composite Sandwich Structures under Compression', *Journal of Composites Technology and Research (JCTRER)* 17(4), 1995, 308–316.
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- L. Pahlavan, C. Kassapoglou and Z. Gurdal, A wavelet-based spectral finite element method for simulating elastic wave propagation, 8th International Workshop on Structural Health Monitoring, 13–15 September 2011, Stanford University, Stanford, CA, pp. 2495–2503.
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S. Shroff and C. Kassapoglou, “Progressive failure modelling of impacted composite panels under compression,” *J. Reinforced Plastics and Compos.*, 34, No. 19, 1603-1614 (2015).

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Weiling Zheng and Christos Kassapoglou, “Energy method for the calculation of the energy release rate of delamination in composite beams”, *Journal of Composite Materials*, Vol. 53, No. 4, pp 425-443, February 2019