Professor Alan Taylor Zehnder

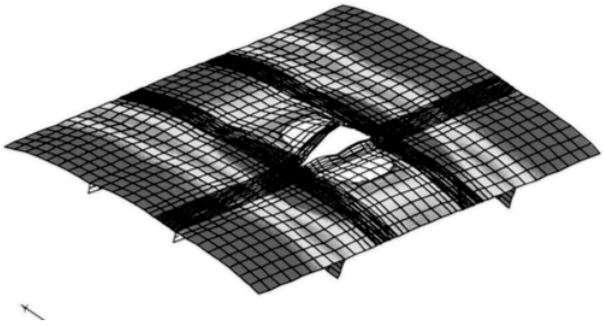

Figure 1: FEM simulation of a crack along a lap joint in a pressurized fuselage. Fuselage bulges out on one side of the lap joint, resulting in crack tip out-of-plane shearing stresses. Courtesy of Dr. V. Britt, formerly NASA Langley Aircraft Structures Branch.

From: Alan T. Zehnder and Mark J. Viz, "Fracture Mechanics of Thin Plates and Shells Under Combined Membrane, Bending, and Twisting Loads", Appl. Mech. Rev., Vol. 58, No. 1, 2005

See:
http://www.mae.cornell.edu/people/profile.cfm?netid=atz2&back=&view=allpubs
https://confluence.cornell.edu/display/frac/Zehnder+Research+Group
http://vivo.cornell.edu/display/individual7040
https://scholar.google.com/citations?user=Qy2GEAIAAAAJ&hl=en

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