



Professor Hossein Hosseini-Toudeshky



Fig. 1: Debonding of composite patch from cracked aluminium panel

From: H. Hosseini-Toudeshky, S. Bakhshandeh, B. Mohammadi, "Experimental investigations on fatigue crack growth of repaired thick aluminum panels in mixed-mode conditions", *Compos. Struct.* 75 (2006) 428–436.

See:
<https://scholar.google.com/citations?user=O5dARMMAAAAJ&hl=en>
https://www.researchgate.net/profile/Hossein_Hosseini-Toudeshky
<http://aerospace.aut.ac.ir/autcms/people/verticalPagesAjax/professorHomePage.htm?url=hosseini&depurl=aerospace-engineering&lang=en&cid=90856>

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Education:

PhD in Solid Mechanics, University of New South Wales, Sydney, Australia, 1996.
MSc in Solid Mechanics, Isfahan University of Technology, Isfahan, Iran, 1989
BSc in Solid Mechanics, Isfahan University of Technology, Isfahan, Iran, 1987.

Research Interests:

Fatigue and Fracture of Engineering Materials and structures
Aging and Life Extension of components and Structures
Repair of Metal Components using Composite Patches
Creep Life Assessment of Power Plant Components
Damage Mechanisms in Composite Laminates and structures
Material characterization, failure load calculation, and life assessment of components using various progressive damage analyses

Selected Publications:

Hosseini-Toudeshky, H., Loughlan, J. and Kharazi, M., 'The buckling characteristics of some integrally formed bead stiffened composite panels', *Thin-Walled Structures*, Volume 43(4), pp 629-645, 2005

M. R. Mofakhami, H. Hosseini Toudeshky, and Sh. Hosseini Hashemi, "Finite cylinder vibrations with different end boundary conditions," *J. Sound Vibr.*, 297, 293-314 (2006).

H. Hosseini-Toudeshky, S. Bakhshandeh, B. Mohammadi, "Experimental investigations on fatigue crack growth of repaired thick aluminum panels in mixed-mode conditions", *Compos. Struct.* 75 (2006) 428–436.

Hosseini-Toudeshky, H., Mohammadi, B., (2009). Thermal residual stresses effects on fatigue crack growth of repaired panels bounded with various composite materials *Compos Struct.* V: 89: 216-223.

Hosseini-Toudeshky H., Hosseini S., Mohammadi B.: Buckling and delamination growth analysis of composite laminates containing embedded delaminations. *Appl. Compos. Mater.* 17, 95–109 (2010)

Ali Koochi, Hossein Hosseini-Toudeshky, Hamid Reza Ovesy and Mohamadreza Abadyan, "Modeling the influence of surface effect on instability of nano-cantilever in presence of van der Waals force", *International Journal of Structural Stability and Dynamics*, Vol. 13. No. 4, 1250072, May 2013

A. Kabiri Ataabadi, H. Hosseini-Toudeshky and S. Ziaei Rad, "Experimental and analytical study on fiber-kinking failure mode of laminated composites", *Composites Part B: Engineering*, Vol. 61, pp 84-93, May 2014