



Professor Odd Sture Hopperstad

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Biography:

Odd Sture Hopperstad is professor at Department of Structural Engineering, Norwegian University of Science and Technology (NTNU) in Trondheim, Norway. He earned his doctoral degree at the Norwegian Institute of Technology (NTH) in 1993 and for this work he received the ESSO prize for best doctoral degree in fundamental research. He was appointed professor at NTNU in 1998. He is a member of the Norwegian Academy of Technological Sciences and the Royal Norwegian Society of Sciences and Letters. Professor Hopperstad’s research activities are mainly within materials mechanics, ductile fracture, formability, crashworthiness and structural impact. Within these fields, Hopperstad has authored/co-authored about 250 articles in international journals with peer review. He has supervised/co-supervised 40 PhD students in the past and is currently supervising/co-supervising 15 PhD students. From 2007-2014, he was member of the core team of the Centre of Research-based Innovation SIMLab at NTNU, where he was heading the research area Fracture and Crack Propagation. Currently he is Research Director of the Centre of Research-based Innovation CASA and principal investigator of the Toppforsk project FractAI at NTNU. From 2008-2011, Hopperstad was Associate Editor in International Journal of Impact Engineering, and he is currently member of the Editorial Advisory Board of the journal. From fall 2010, he is Associate Editor in European Journal of Mechanics – A/Solids.

Selected Publications:

Figure 5 Non-filled vs. foam-filled square extrusion, quasi-static loading



Figure 6 Axial crushing of non-filled and foam-filled circular and square extrusions, quasi-static loading



The image of crushed tubes is from: A.G. Hanssen, A. Reyes, O.S. Hopperstad and M. Langseth, “Design and finite element simulations of aluminium foam-filled thin-walled tubes”, International Journal of Vehicle Design, Vol. 37, Nos. 2/3, 2005

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