

Professor Włodzimierz (Wlodek) Abramowicz

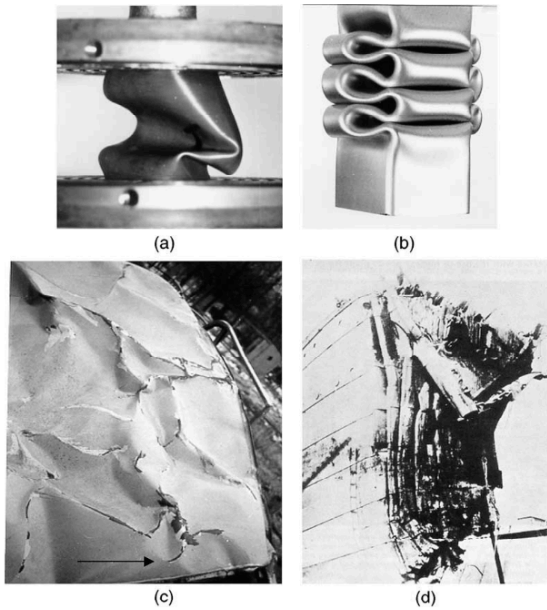


Fig. 1. Representative folding patterns of crushed shell structures are composed of similar basic pattern (A), referred to as a Superfolding Element (SE). Four Superfolding Elements create entire layer of folds in a crushed square column (B). More complex folding patterns like crashed roof of a car (C) or folded bow of a ship (D), [5], are composed of complex combination of SE's.



Fig. 6. Progressive folding of properly triggered prismatic members subject to the predominantly axial crash loading.

The images above are from: Abramowicz W., 2003, Thin-walled structures as impact energy absorbers, *Thin-Walled Structures*, 41, 91-107

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