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Fig. 1. Representative folding patterns of crushed shell structures are composed of similar basic patterns (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 crushed roof of a car (C) or folded bow of a ship (D), [5], are composed of complex combination of SE's.

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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See: https://www.researchgate.net/scientific-contributions/W-Abramowicz-73492092

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Selected Publications:
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