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Quasi-Static and dynamic testing of splitting, expansion and expansion-splitting hybrid tubes under oblique loading

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Highlights

- Quasi-static and dynamic testing was performed on splitting, expansion and hybrid expansion-splitting tubes.
- 'Flat topped' energy absorbers, such as splitting, expansion and expansion-splitting tubes, increase their mean load as they are subjected to oblique loading.
- A novel methodology is proposed to assess the sensitivity of Type I, 'flat topped' energy absorbers to the application of oblique loading.
- Expansion-splitting tubes exhibit little sensitivity to the application of oblique loading under quasi-static conditions.
- Splitting tubes and Expansion-splitting tubes exhibit little sensitivity to the application of oblique loading under dynamic conditions.

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