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Three-point bending collapse of thin-walled rectangular beams

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Highlights

- Quasi-static three-point bending tests are conducted for thin-walled rectangular tubes;
- Deformation and force responses of tubes are analyzed experimentally and numerically;
- The influences of geometrical parameters on bending response of tubes are investigated;
- A theoretical method is proposed to predict the bending moment response of rectangular tubes;
- The theoretical results are in good agreement with experimental and numerical results.

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