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Dynamic response of pre-loaded structures subjected to combined extreme environments

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Highlights

- Shock response of Hastelloy X under tensile load and high temperatures is studied.
- DIC and high speed photography were used to obtain displacements and strains.
- The application of a tensile load reduces the deflection of the plates.
- The deformation depends on the temperature, shock pressure, and tensile pre-load.
- Yield strength anomaly affects the structural behavior at high temperatures.

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