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Characterization of Hardening Behaviors of 4130 Steel, OFHC Copper, Ti6Al4V Alloy Considering Ultra-High Strain Rates and high Temperatures

MingJun Piao , Hoon Huh , Ikjin Lee

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Highlights

- Hardening behaviors at ultra-high strain rates have been characterized
- A hybrid optimization approach is used to characterize hardening behaviors
- Thermal softening effect is investigated at different strain rates
- Sequentially deformed shapes have been considered from the Taylor impact tests

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