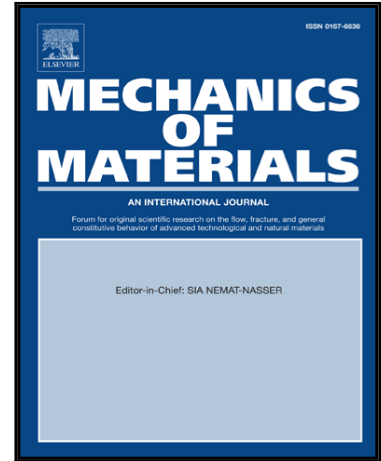


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Influence of unobservable overstress in a rate-independent inelastic loading curve on dynamic necking of a bar

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Highlights

- A rate-independent overstress model with a smooth elastic-inelastic transition
- Overstress is unobservable in a rate-independent loading curve
- Tensile instability during necking of a bar is analyzed
- Overstress significantly influences the growth rate of instabilities

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