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Rupture analysis of rubber in the presence of a sharp V-shape notch under pure mode-I loading

M. Heydari-Meybodi , M.R. Ayatollahi , F. Berto

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**Highlights**

- Rupture tests are conducted on sharp V-notched styrene-butadiene rubbers (SBRs).
- The averaged strain energy density (ASED) criterion is extended to notched rubbers.
- The ASED criterion is then employed to assess rupture condition in tested SBRs.
- Good consistency between the ASED estimations and the experiments is obtained.

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