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Laboratory Scale Investigation of Stress Wave Propagation and Vibrational Characteristics in Sand when Subjected to Air-Blast Loading

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Highlights

- Laboratory simulated air-blast loading using shock tube are applied on the sand surface.
- Stress enhancement adjacent to sample surface is about 4-5 times the peak overpressure of the blast wave.
- The attenuation coefficient for peak particle velocity is found to be 1.88 and 1.36 for medium dense and dense sand respectively.

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