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Shear wave velocity in sand considering the effects of frequency based on particle contact theory

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Highlights

- 1 Formula for shear wave velocity of granular aggregation is determined.
- 2 Formula for shear wave velocity in sand considering effect of frequency is deduced.
- 3 Frequency dispersion characteristics of the shear wave in sand are revealed.
- 4 Theoretical expression for critical frequency of shear wave in sand is proposed.
- 5 Simplified equation of shear wave velocity in sand for site test is obtained.

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