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(57) Abstract :
7. ABSTRACT: A method to study dynamic properties of fibre reinforced soil and vibration isolation is disclosed. The said method comprises steps of experimental investigation on vibration absorption, wherein the results from the experiments on vibration absorption (experimental series 1) will help to arrive at the media properties (i.e relative density), thickness of vibration absorption and role of fibers as damping material, whereas this will help in designing the structures subjected to dynamic forces. The method also comprises another step of experimental investigation on vibration isolation, wherein the results from the experiments on vibration isolation (experimental series 2) are expected to help understand the role of medium of isolating trench and depth of trench, whereas this will help in protecting the existing structures from the vibration of the neighboring structures. The method finally involves preparing numerical models, wherein this will help to extrapolate the results for various conditions of vibration to the foundation soil. . The Figure associated with Abstract is Fig 1.

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