非均质流固耦合介质轴对称动力问题时域解

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TRANSIENT SOLUTIONS OF AXISYMMETRIC DYNAMIC PROBLEM FOR INHOMOGENEOUS TWO PHASE MEDIA

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Abstract

The transient propagation in multi layered two phase media under axisymmetric dynamic load is considered and a set of analytic solutions are obtained in the integral form. To obtain the transient solutions, the field equations in cylindrical coordinates on the basis of the modified Biot's linear theory for two phase media are presented and the uncoupled governing equations are then established without the aid of scalar potentials. By means of Laplace Hankel mixed transforms, a set of solutions in transfo...

Key words <u>transient solutions</u> <u>multi layered system</u> <u>two phased media</u> <u>Laplace Hankel transforms</u> <u>initial parameters</u>

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