

Article Abstract

Title:	Elastodynamics response of green's function and influence function in fluid saturated incompressible porous medium
Author(s):	Rajneesh Kumar ^{1*} , Aseem Miglani and Sanjay Kumar ²
Address(es):	^{1*} Department of Mathematics, Kurukshetra University, Kurukshetra, Haryana,, INDIA ² Department of Mathematics, Chaudhary Devi Lal University, Sirsa, Haryana INDIA *Corresponding Author: e-mail: rajneesh_kuk@rediffmail.com Tel +91-9416120992
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Abstract:	The article reports on a methodology to synthesize the response of Green's function and influence function in fluid saturated incompressible porous half space. As an application, the disturbance due to concentrated and distributed loads in normal and tangential direction is investigated by employing the Laplace and Fourier transforms. The integral transforms have been inverted by using a numerical technique to obtain the components of displacement, stress and pore pressure in physical domain. The results concerning these quantities are given and illustrated graphically to depict the effect of pore pressure. A particular case of interest has been deduced from the present investigation.
Keywords:	Porous, Green's function, pore pressure, Laplace transform, Fourier transform.