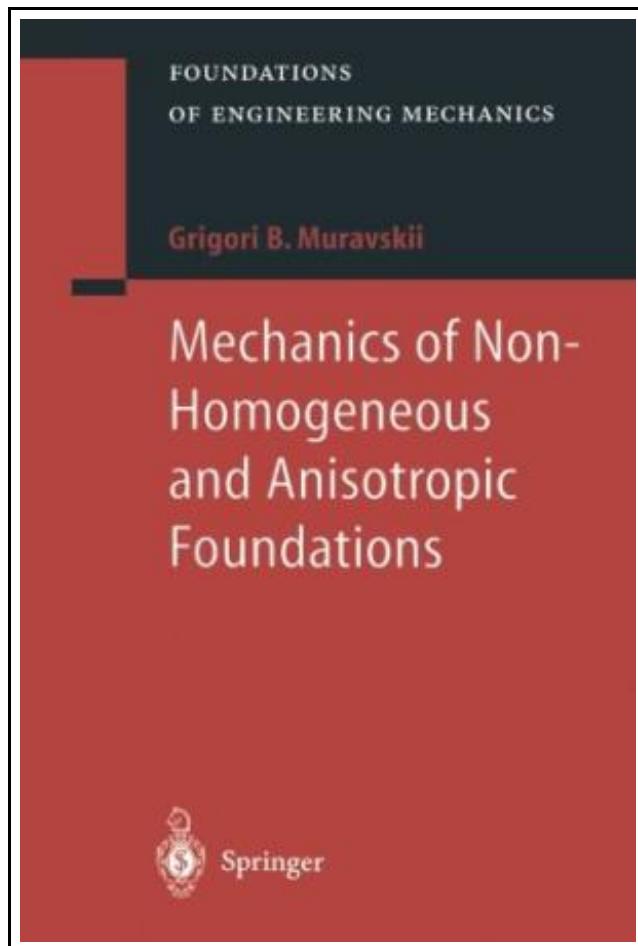


## Mechanics of Non-Homogeneous and Anisotropic Foundations



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Book Condition: New. Publisher/Verlag: Springer, Berlin | Although realistic soil and rock foundations reveal noticeable deviations in their properties from homogeneity and isotropy, the model of the homogeneous isotropic elastic half-space is widely used when studying static and dynamic interactions between a deformable foundation and structures. This is explained by significant mathematical difficulties inherent in problems concerning mechanics of anisotropic and heterogeneous elastic bodies. Solving the basic static and dynamic problems for heterogeneous and anisotropic half-spaces, such as different contact problems and problems of constructing Green's functions, has become possible in the last few decades due to the development of computer engineering techniques and numerical methods. This book contains the results of investigations in the area of statics and dynamics of heterogeneous and anisotropic foundations, carried out by the author in the last five years while working in the Faculty of Civil Engineering at Technion - Israel Institute of Technology. The book is directed at engineers and scientists in the areas of soil mechanics, soil-structures interaction, seismology and geophysics. Some characteristic features of the book are: i) Constructing (Chap. I) solutions in a general form for the heterogeneous (in the depth direction) transversely isotropic elastic half-space subjected to different loadings, harmonic in time. Characteristics of the given half-space have an influence on functions (of depth  $z$  and parameter  $k$  of Hankel's transforms), which are determined from a system of ordinary differential equations. | 1. General Solutions of Harmonic Vibrations in Heterogeneous Transversely Isotropic Half-Space.- 1.1 Basic Relationships of Theory of Elasticity for Transversely Isotropic Body.- 1.2 Particular Solutions for Transversely Isotropic Heterogeneous Elastic Medium.- 1.3 Statement of Boundary Conditions for Planes  $z = \text{const.}$ - 1.4 General Solution for Harmonic Vibration of Half-Space Subjected to Surface Loads.- 1.5 General Solution for Harmonic Vibrations of Half-Space Subjected to Loads Applied below its Surface.-...

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