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Modeling Viscoelastic BehaviorPolymer viscoelasticity and the relaxation modulus Biot Theory of Poroelasticity Polymer Viscoelasticity L7a | MSE203 - Anisotropic Elasticity

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8 CHAPTER1. INTRODUCTION 1.3 BRIEFHISTORY Importantconceptsofporoelasticitydevelopedsomewhatindependentlyin geomechanics,petroleumengineering,andhydrogeology ...

Herbert F. Wang: Theory of Linear Poroelasticity with ...

Linear poroelasticity is a theory that includes the coupling between linear diffusion of a mobile species and the stress and deformation of a linear elastic porous solid. This theory has been widely applied not only to soils and rock masses in fi ltrated by groundwater but also to coupling of fl uid fl ow and

Linear Poroelasticity - Environmental Engineering

Theory of Linear Poroelasticity with Applications to Geomechanics and Hydrogeology Herbert F. Wang PRINCETON UN IV E RSITY PRESS · PRINCETON ANO OXFORD . Contents PREFACE xi 1. lntroduction 3 1.0 Chapter Overview 3 1.1 Historica1 Examp1es 3 1.2 Basic Concepts 5 1.3 Brief ...

Theory of Linear Poroelasticity - UniTrento

Title:An introduction to linear poroelasticity. An introduction to linear poroelasticity. This study is an introduction to the theory of three-dimensional consolidation. The point of departure in the description are the basic equations of elasticity (i.e. constitutive law, equations of equilibrium in terms of stresses, and the definition of strain), together with the principle of effective stress, and the law of Darcy for fluid flow in porous media.

[1607.04274] An introduction to linear poroelasticity

Poroelasticity is a field in materials science and mechanics that studies the interaction between fluid flow and solids deformation within a linear porous medium and it is an extension of elasticity and porous medium flow (diffusion equation). The deformation of the medium influences the flow of the fluid and vice versa.

Poroelasticity - Wikipedia

One of the key findings of the theory of poroelasticity is that in poroelastic media there exist three types of elastic waves: a shear or transverse wave, and two types of longitudinal or compressional waves, which Biot called type I and type II waves. The transverse and type I (or fast) longitudinal wave are similar to the transverse and longitudinal waves in an elastic solid, respectively.

Poromechanics - Wikipedia

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sical theory of linear poroelasticity captures this coupling by combining Darcy ' s law with Terzaghi ' s effective stress and linear elasticity in a linearized kinematic framework Linear poroelasticity is a good model for very small deformations, but it becomes increasingly inappropriate for

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A linear theory The theory of linear poroelasticity, originally developed by Biot5 for soil consolidation, has been extended to gels3,4,6 – 15 In this section, by linearizing the equations of the nonlinear theory at the vicinity of an isotropically swollen state, we derive a set of linear equations for

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linear poroelasticity is a theory that includes the coupling between linear diffusion of a mobile species and the stress and deformation of a linear elastic porous solid this theory has been widely applied not