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The theory of linear poroelasticity describes the interaction between mechanical effects and adding or removing fluid from rock. It is critical to the study of such geological phenomena as earthquakes and landslides and is important for numerous engineering projects, including dams, groundwater withdrawal, and petroleum extraction.

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Poroelasticity is a field in materials science and mechanics that studies the interaction between fluid flow and solids deformation

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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

8 CHAPTER1. INTRODUCTION 1.3 BRIEFHISTORY Important concepts of poroelasticity developed somewhat independently in geomechanics, petroleum engineering, and hydrogeology ...

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 infiltrated by groundwater but also to coupling of fluid flow and

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[1607.04274] An introduction to linear poroelasticity

Biot's equations of the linear theory of poroelasticity are derived from Equations of linear elasticity for the solid matrix, Navier-Stokes equations for the viscous fluid, and Darcy's law for the flow of fluid through the porous matrix.

Poromechanics - Wikipedia

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The earliest theory to account for the influence of pore fluid on the quasi-static deformation of soils was developed in 1923 by Terzaghi¹ who proposed a model of one-dimensional consolidation. This theory was generalized to three-dimensions by Rendulic² in 1936.

Emmanuel Detournay and Alexander H.-D. Cheng

Theory of linear poroelasticity with applications to geomechanics and hydrogeology:: Princeton University Press; ISBN 0-691-03746-9; Author Herbert F. ...

(PDF) Theory of linear poroelasticity with applications to ...

This book treats the mechanics of porous materials infiltrated with a fluid (poromechanics), focussing on its linear theory (poroelasticity). Porous materials from inanimate bodies such as sand, soil and rock, living bodies such as plant tissue, animal

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flesh, or man-made materials can look very

Poroelasticity | Alexander H.-D. Cheng | Springer

The purpose of this brief paper is to present a new derivation of Biot's theory of linear poroelasticity (Biot, M., 1935, "Le Problème de la Consolidation des Matières Argile

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