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Mechanics of Poroelastic Media | A.P.S. Selvadurai | Springer

Definition. 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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Mechanics of Poroelastic Media by A.P.S. Selvadurai ...

A new paper on the indentation of poroelastic media has been published by our group. In this work, we demonstrate the use of a "master curve" database for fast identification of poroelastic properties (elastic modulus, drained Poisson's ratio and hydraulic permeability) from an indentation creep (displacement-time) curve.

Poroelastic properties from indentation tests | iMechanica

Series: Solid Mechanics and Its Applications (Book 35) Paperback: 412 pages; Publisher: Springer; Softcover reprint of hardcover 1st ed. 1996 edition (December 7, 2010) Language: English; ISBN-10: 9048145139; ISBN-13: 978-9048145133; Product Dimensions: 6.1 x 0.9 x 9.1 inches Shipping Weight: 1.6 pounds (View shipping rates and policies)

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Mechanics of Poroelastic Media Volume 35 of Solid Mechanics and Its Applications: Editor: A.P.S. Selvadurai: Edition: illustrated: Publisher: Springer Science & Business Media, 1996: ISBN:...

Mechanics of Poroelastic Media - Google Books

Exact time domain solutions for displacement and porepressure are derived for waves emanating from a pressurized spherical cavity, in an infinitely permeable poroelastic medium with a permeable boundary. Cases for blast and exponentially decaying step pulse loadings are considered; letter case, in the limit as decay constant goes to zero, also covers the step (uniform) pressure.

Spherical Wave Propagation in a Poroelastic Medium with ...

The stress-induced failure of cavities in poroelastic media is investigated using an analytical solution of the elastic matrix inclusion problem of Eshelby and a rock failure criterion. The elastic properties of the porous matrix surrounding the cavity are modeled using a self-consistent version of ...

Mechanical failure of cavities in poroelastic media ...

The fluid phase is formulated with respect to the Lagrangian finite element mesh, following the solid phase deformation. The ISM is discretized with an independent Lagrangian mesh and may behave arbitrarily complex (it may, eg, be compressible, grow, and perform active deformations). We model two distinct types of interactions, namely, (1) the immersed fluid?structure interaction (FSI) between the ISM and the fluid phase in the PM and (2) the immersed structure?structure interaction (SSI

A coupled approach for fluid saturated poroelastic media ...

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Mechanics of Poroelastic Media book by A. P. S. Selvadurai ...

The flow and mechanics of poroelastic media and the contact mechanics of elastic bodies are well?developed research fields. For a porous or poroelastic medium, we refer to the classical textbooks. 1 , 2 There exists an extensive number of discretizations for the elliptic equations describing fluid flow in a porous medium, and they all have different merits.

Finite volume discretization for poroelastic media with ...

The evolution of damage introduces alterations in both the hydraulic conductivity and skeletal elasticity properties of the poroelastic solid. The paper examines the fluid-filled spherical cavity problem with a view to establishing the influence of the stress state-dependent damage on the amplification and decay of the fluid pressure in the spherical cavity.

The Fluid-filled Spherical Cavity in a Damage-susceptible ...

1) Highlights in the historical development of porous media theory: toward a consistent macroscopic theory. de Boer, Reint, Applied Mechanics Review, 49:201-262, 1996. 2) Mow VC, Kuei SC, Lai WM, Armstrong CG: Biphasic creep and stress relaxation of articular cartilage in compression: Theory and Experiment,

Poroelasticity, or migration of matter in elastic solids ...

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Liang-Ping Yi, Haim Waisman, Zhao-Zhong Yang, Xiao-Gang Li, A consistent phase field model for hydraulic fracture propagation in poroelastic media, Computer Methods in Applied Mechanics and Engineering, 10.1016/j.cma.2020.113396, 372, (113396), (2020).