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Analyses of waves in 3-d poroelastic media. H. Antes, T. Wiebe. Pages 371-387. Back Matter. Pages 389-398. PDF. About this book. Keywords. biomechanics fracture mechanics

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numerical modelling porous media solids stress . Editors and affiliations. A. P. S. Selvadurai. 1; 1. Department of Civil Engineering and Applied Mechanics McGill University ...

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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](#)

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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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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:

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Exact time domain solutions for displacement and porepressure are derived for waves emanating from a pressurized spherical cavity, in an infinitely permeable poroelastic

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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 ...

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The fluid phase is formulated with

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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 ...

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## 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

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

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