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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

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8 CHAPTER1. INTRODUCTION 1.3

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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



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theory has been widely  
applied not only to soils  
and rock masses infiltrated  
by groundwater but also to  
coupling of fluid flow and

~~Linear Poroelasticity~~  
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Applications 3 1.1 Historical  
Examples 3 1.2 Basic  
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Title: An introduction to  
linear poroelasticity. An

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Applications 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.

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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.

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~~[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

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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.

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~~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



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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

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elastic solid, respectively.  
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sical theory of linear

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coupling by combining

Darcy's law with Terzaghi's

effective stress and linear

elasticity in a linearized

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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  
Biot<sup>5</sup> for soil  
consolidation, has been  
extended to gels<sup>3,4,6-15</sup> In



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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

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elastic porous solid this  
theory has been widely  
applied not

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