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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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Theory of Linear Poroelasticity with Applications to Geomechanics and Hydrogeology Herbert F. Wang PRINCETON UNIVERSITY PRESS · PRINCETON AND OXFORD

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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 Emmanuel Detournay and Alexander H.-D. Cheng

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theory,22â€”26 but in practice they do not offer any advantage over the Biot theory.8,26 This chapter is concerned with the formulation and analysis of coupled deformation-diffusion processes, within the framework of the Biot theory of poroelasticity.

Emmanuel Detournay and Alexander H.-D. Cheng

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Biot's linear constitutive equations and their coefficients are described in this chapter. The four basic variables of poroelasticity can be grouped into two conjugate pairs: (1) stress and strain and (2) pore pressure and increment of fluid content (fluid volume added to storage per unit of control volume).

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1 Introduction 1.0 CHAPTER OVERVIEW

The purpose of this book is to quantify, in the simplest linear approximation, how fluid extraction or injection produces stress changes in isotropic ...

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