

Mechanics of Swelling

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Reviews

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MECHANICS OF SWELLING



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Book Condition: New. Publisher/Verlag: Springer, Berlin | From Clays to Living Cells and Tissues | Provided here is up-to-date and in-depth information on various swelling phenomena occurring in living organisms and in the unanimated world. Thebook is arranged in six parts, which cover fundamentals, special topics, analytical and experimental methods and applications relevant to swelling insoils, cells and tissues of plants and animals. Specifically, it includes all aspects of osmotic phenomena leading to swelling in clays, cells, tissues, gels, blisters, colloidal systems, surfaces and membranes. Forces between surfactant, lipid and protein membranes and in polymeric systems are also considered. | 1. Swelling in Soils.- Flow and volume change in soils and other porous media, and in tissues.- Water movement and volume change in swelling systems.- Thermodynamics of soils swelling non-hydrostatically.- Operational aspects of the mechanics of deforming porous media: theory and application to expansive soils.- The osmotic role in the behaviour of swelling clay soils.- 2. Plant Growth.-Osmotic adjustment in plant cells exposed to drought and temperature stress: can a cause and effect hypothesis be formulated and tested?.- On the kinematics and dynamics of plant growth.- Regeneration in the root apex: Modelling study by means of the growth tensor.- Daily variations of stem and branch diameter:Short overview from a developed example.- Physical principles of membrane damage due to dehydration and freezing.- Ion channels in the plasma membrane of plant cells.- The effect of low oxygen concentration and azide on the water relations of wheat and maize roots.- The expansion of plant tissues.- 3. Cells Morphology, Function and Deformation.- MDCK cells under severely hyposmotic conditions.- Osmotic swellingpressurization-rupture of isolated cells and disjoining of cell aggregates in soft tissues.- Endocrine pituitary cell cultures: cellular morphology, protein secretion, and susceptibility to weak bases and ionophores.- Cytoskeletal networks and osmotic pressure in relation...

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