

Download Buckley Leverett

In fluid dynamics, the Buckley–Leverett equation is a conservation equation used to model two-phase flow in porous media. The Buckley–Leverett equation or the Buckley–Leverett displacement describes an immiscible displacement process, such as the displacement of oil by water, in a one-dimensional or quasi-one-dimensional reservoir. This feature is not available right now. Please try again later. Fundamentals of Fluid Flow in Porous Media . Chapter 4 Immiscible Displacement Buckley-Leverett Theory. One of the simplest and most widely used methods of estimating the advance of a fluid displacement front in an immiscible displacement process is the Buckley-Leverett method. An equation for fluid flow in a porous medium, proposed in [a1], that models the displacement of oil by water in a one-dimensional porous medium (e.g., sand). If w denotes the saturation of water, i.e., the fraction of pore volume occupied by water, and M_w and M_o are the mobilities of water and oil