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3.3. Experimental determination and interpretation of retention curves3.3.1. Open air drainage and imbibition; 3.3.2. (Richards) pressure plate; 3.3.3. Mercury porometry; 3.3.4. Pore space and interstitial fluids imaging; 3.4. Appendices and exercises; 3.4.1. Hydrostatics and retention curves; 3.4.2. Retention curves of a material with rough porometry; 3.4.3. Dripping and centrifugation; 3.4.4. Porometric distributions and in situ hydrostatic equilibrium; 3.4.5. Capillary barrier; 3.4.6. The fate of the entrained air during imbibition; 3.4.7. Nucleation during drainage
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Sommario/riassunto

A porous medium is composed of a solid matrix and its geometrical complement: the pore space. This porespace can be occupied by one or more fluids. The understanding of transport phenomena in porous media is a challenging intellectual task. This book provides a detailed analysis of the aspects required for the understanding of many experimental techniques in the field of porous media transport phenomena. It is aimed at students or engineers who may not be looking specifically to become theoreticians in porous media, but wish to integrate knowledge of porous media with t