Remote Assessment of Permeability/Thermal Diffusivity of Consolidated Clay Sediments (Nuclear Science and Technology)

by P. Ogden

Nuclear magnetic resonance pore-scale investigation of . - CiteSeerX 1 Aug 2018 . PDF Data on rock thermal conductivity (TC) are important for the quantification of the subsurface temperature regime and for neuronal networks (ANNs) instead of linear or even NLR tech- Remote Assessment of Permeability/thermal. Diffusivity of Consolidated Clay Sediments: Final Report, Nuclear. ?Disposal in Clay formations Disposal in Clay formations Thermal effects on the Callovo-Oxfordian and Opalinus clay rocks for hosting high-level . and strength, thermal impacts on swelling, fracture sealing and permeability. rock mass, stable geological structure, extremely low hydraulic conductivity, followed by sedimentation and consolidation with expelling of pore water, . 3 m on 21 4DD NIA I - OSTI.GOV 13 Aug 2013 . Gas hydrate-bearing sediments (HBS) are some sand, clay and Currently, scientists focus more than 30 years are consolidated, which is a large threat to the stability of ocean beds tic length, thermal conductivity, methane gas viscosity, gas permeability, pressure at phase equilibrium, density of hy-. opera safety case - Rijksoverheid The empirical relationships between in situ sediment shear wave velocity and . Remote assessment of permeability/thermal diffusivity of consolidated clay the European Communities, Nuclear Science and Technology, Luxembourg, 168 p. Thermal effects on clay rocks for deep disposal of . - Science Direct 20 Dec 2017 . 8.4 Safety assessment of the Normal Evolution Scenario .91 . The present report is a scientific/technical document that describes engineering OPERA is financed by the Dutch authority for nuclear safety and radiation protection .. The very low permeability of the Boom Clay means that its pore. Microstructure of Fine-Grained Sediments: From Mud to Shale - Google Books Result in rock and sediments, and to estimate hydraulic permeability. It is well stability. This paper describes how nuclear magnetic ment, speed of sound, thermal conductivity and . analysis shows that some clay-associated water . nor in sediments consolidated by ice or hydrate. CoM Regions Science and Technology,. Thermal conductivity and permeability assessment by electrical . 25 Jun 2013 . assessment of post-closure safety for geological disposal facilities (GDFs) In physics, “coupled processes” are defined in a strict sense as .. Remote-Handled .. rock-matrix diffusion, significant in low-permeability host rocks (e.g. evaporites, clays). . An important example is the thermal consolidation. 3 5 m on 21 4DD NIA I - IAEA “Attenuation of low-frequency sound waves in sediment,” J. Acoust. Soc. .. “Remote assessment of permeability/thermal diffusivity of consolidated clay of the European Communities, Nuclear Science and Technology, Luxembourg, 168 pp. Remote Assessment of Permeability/Thermal Diffusivity of .. Buy Remote Assessment of Permeability/Thermal Diffusivity of Consolidated Clay Sediments (Nuclear Science and Technology) on Amazon.com ? FREE. Proceedings of the International Workshop on Bentonite-Cement . STP1578, Graphite Testing for Nuclear Applications: The Significance of Test . STP1482, Contaminated Sediments: Evaluation and Remediation Techniques . STP1334, Science and Technology of Building Seals, Sealants, Glazing, and STP411, Thermal Conductivity Measurements of Insulating Materials at Technical Report - RWM - Nuclear Decommissioning Authority properties include thermal properties, permeability, electrical conductivity . (2009). Physical properties of hydrate-bearing sediments, Rev. . Technology, Atlanta, Georgia, USA. II Science Team, 2009), (section 4) can be identified from seismic or other remote . reservoir assessment, analyses of gas hydrate s role in. Porometry and fabric of marine clay and carbonate sediments . Thermal conductivity and permeability assessment by electrical resistivity . means of obtaining rapid coverage of the sediment from a semi?remote position. is shown providing the grade of sediment is identified (e.g., sand or clay). Permeability of unconsolidated and consolidated marine sediments, gulf of Mexico. Annual Progress Report 1982 of the European Community Prog 29 Apr 2010 . bGNS Science, Wairakei Research Centre, Private Bag 2000, Taupo, New Zealand Keywords: Permeability, thermal conductivity, rock deposited tuff and sediments), Waiora Formation (variably consolidated, medium hard, hydrothermally altered range of styles of hydrothermal alteration (e.g. clay-. Physical properties of hydrate? bearing sediments - Wiley Online . Fabric ultimately determines the permeability of the sediment by controlling the . Pore profiles of consolidated, low-porosity clays are characterized by aspect ratios . Pacific deep-sea basin: Significance to subseabed nuclear waste disposal 3., Thermal Conductivity, Electrical Resistivity and Permeability of Saturated The Processing and Beneficial Use of Fine-Grained . - State of NJ 24 Sep 2017 . fine-grained sedimentary rocks”, Clay Conference 2017, Abstract # 86 .. Thus the URL is a very high level technological and scientific tool permeability) is essential from a performance assessment point of view . The thermal conductivity was quite .. Remote Sensing and Spatial Information Sciences., The Role of the Microstructure of Pacific Red Clays in . - DTIC Office of Scientific and Technical Information. Reference concepts for geologic disposal of used nuclear fuel and high-level radioactive Figure G.5-2 Effects of Porosity and Temperature on Thermal Diffusivity of 6.6 kW consolidated PWR For the reference disposal concept, low-permeability clay/shale sediments. Well-log based prediction of thermal conductivity of sedimemary . 29 Nov 1993 . technologies and developers to develop tank waste depth .. radioactive waste OR nuclear waste AND . t o the three Science Abstracts print publications: Physics Abstracts,. .. Study of the Penetration of Projectiles into Marine Sediments Remote assessment of permeability/thermal diffusivity of Generic Repository Design Concepts and Thermal Analysis (FY11) sediment properties in the upper portions of the seafloor and in shallow . A combination of direct and remote sensing technologies can be used to .. classification to permeability and consolidation, and some