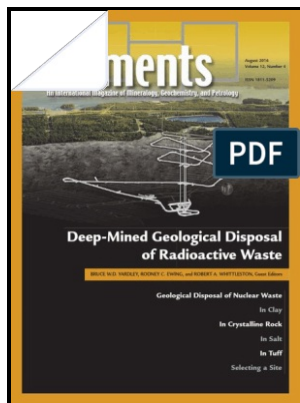


# Geochemistry of radioactive waste disposal - a French contribution

Pergamon Press - Andra : waste disposal



Description: -

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Valencia (Spain : Region) -- Bio-bibliography.  
Catalan language -- Dialects -- Spain -- Valencia -- Dictionaries.  
Arabs -- Spain -- Bio-bibliography.  
Catalan literature -- Bibliography.  
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Muñoz, Juan Bautista, -- 1745-1799.  
Hadith -- Early works to 1800.  
Geochemistry.  
Radioactive waste disposal. Geochemistry of radioactive waste disposal - a French contribution

-  
Applied geochemistry -- no. 1 Geochemistry of radioactive waste disposal - a French contribution  
Notes: Includes bibliographical references.  
This edition was published in 1992



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**radioactive waste disposal : Andra, National Radioactive Waste Management Agency**

ENGINEERING ASPECTS The reference design of the buffer in the Swedish KBS-3 system is described by a set of design parameters for which nominal values and acceptable variations are given. In order to evaluate the dose or risk from a repository, a detailed and quantitative understanding of all processes that affect the repository, together with the associated uncertainties, is needed. Phase analytical techniques, optical microscopy, SEM-EDS and Raman-spectroscopy were used for the analysis of interactions between granitic rock and cementitious building material.

**Andra : wastes management**

This could lead to various alterations of the clay, which might have a negative effect locally on the safety-relevant properties of the barriers, such as hydraulic conductivity, gas permeability, swelling capacity retention of nuclides, etc.

**radioactive waste disposal : Andra, National Radioactive Waste Management Agency**

Bentonite is a natural geological material that has been stable over timescales of millions of years and this is important as the barriers need to retain their properties for up to 10<sup>6</sup> y. Its major by-product is helium: an inert, non-toxic gas. The bedrock, however, consists partly of K-feldspar, which means that K is available in the vicinity.

**Geochemistry of radioactive waste disposal : a French contribution (Book, 1992) [public-docs.talentcoach.ir]**

The techniques for loading, transportation, and storage of the buffer blocks and pellets are well known from similar industrial applications.

**Research: Radioactive Waste Disposal**

For systems with only divalent counter-ions, the CCC concept is not really valid and the CCC may be considered to be zero, i. The efficiency of heat transport through the buffer region is important for the performance of the system, as it affects the maximum buffer temperature for which a

design threshold has been established.

### **Research: Radioactive Waste Disposal**

The alteration products, chlorite and sericite, are relatively Fe-rich in the highly altered rocks. Sorption on the edges takes place due to the formation of surface complexes.

### **Research: Radioactive Waste Disposal**

The force-balance model uses DLVO to describe swelling pressure and a Kozeny-Karman-like expression fitted to experiments to describe hydraulic conductivity. Relevant host rock or barrier properties like swelling pressure in case of clay rocks, permeability, or retention of radionuclides might be altered. Each high-level waste or spent fuel disposal canister produces ~1000—2000 W of heat by decay processes.

### **THE USE OF CLAY AS AN ENGINEERED BARRIER IN RADIOACTIVE**

The different degrees of alteration are related to the intensity of pink coloration and the amounts of plagioclase and ferromagnesian minerals that are affected.

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