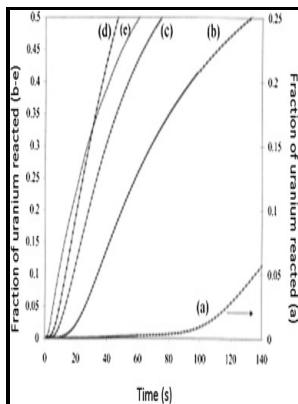


Corrosion Study in Processing Uranium Ore.

s.n - Rossing South Uranium Project



Description: -

-Corrosion Study in Processing Uranium Ore.

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Canada Mines Branch Research Report -- 65Corrosion Study in Processing Uranium Ore.

Notes: 1

This edition was published in 1960



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Corrosion Problems Associated With Uranium Refining★

The basic refining process is described and the performance of presently used and alternate materials of construction are compared. Hachsaw testing was completed with final tests on the last three types of saws. There were spike samples as high as 9% UO.

CORROSION IN MINING, REFINING, AND SEPARATION OF URANIUM. (Journal Article)

As all water is recycled, chloride contents in the liquor have increased, causing detrimental effects to the extraction process.

URANIUM FUELS PROCESSING. (Journal Article)

. This can be achieved by simply introducing oxygen into the solution by bubbling air into the solution. Testwork, properly planned and executed, is the only means of establishing the metallurgical characteristics and efficiency.

Issues at Rössing Uranium Mine, Namibia

Corrosion of Spent Nuclear Fuel

Conventional methods including drilling, blasting, loading and hauling are used for mining uranium from the open pit. Problems associated with the product quality were satisfactorily solved during the first two years. URANIUM IS DIFFERENT Uranium is very different to gold, for example, which occurs principally in the metallic state and rarely alloyed with other metals.

Uranium Ore Processing

The uranium is recovered by a conventional acid leach and solvent extraction.

Study on heap leaching character of an uranium deposit ores

As an interesting sideline, this diversity issue will limit the possibilities of toll milling to decrease CAPEX requirements and create viable projects — a common approach in the gold and nickel industries.

Uranium Mining and Extraction from Ore

The application of flotation is limited to removing sulphides such as at Roxby Downs. Other oxides such as uranium dioxide UO₂ and uranium trioxide UO₃ exist. The ore is first crushed and ground to liberate mineral particles.

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