

Study of possible economical ways of removing radium from drinking water

U.S. Environmental Protection Agency, Water Engineering Research Laboratory - Modern technologies for radium removal from water



Description: -

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Watersheds

Stream ecology

Sewage disposal

Water quality

Water -- Pollution

Water -- Purification

Asceticism -- Catholic Church -- Early works to 1800.

Monastic and religious life -- Early works to 1800.

Augustinians -- Spiritual life -- Early works to 1800.

Bankers -- Germany (West) -- Biography.

Herrhausen, Alfred.

Drinking water -- Purification -- Economic aspects

Water -- Purification -- Radium removalStudy of possible economical ways of removing radium from drinking water

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Notes: Microfiche. [Washington, D.C.] : U.S. G.P.O., [1992]. 1 microfiche

This edition was published in 1988



Filesize: 30.82 MB

Tags: #Modern #technologies #for

#radium #removal #from #water

Removal of Radium from Uranium Effluent by Manganese Oxide Coated Modified Bentonite (Mn

The research team, led by Ngai Yin Yip, a Columbia Engineering assistant professor of earth and environmental engineering, mixed a solvent dyed red in with a sample of hypersaline brine dyed blue. Another possibility of removal radium isotopes from salty waters is an application of zeolites.

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Environment protection article 1 , Environmental Office. The radium selective complexer selectively removes radium with significant capacity if iron fouling is eliminated. By continuing you agree to the.

Removal of Radium from Uranium Effluent by Manganese Oxide Coated Modified Bentonite (Mn

In several collieries the radium removal from mine water was necessary to mitigate negative results of radium release with mine effluents.

Removal of Radium from Uranium Effluent by Manganese Oxide Coated Modified Bentonite (Mn

In the formation waters, occurring in coal mines in the Upper Silesian Coal Basin, Poland different pollutants are present which may cause damages to the environment, among them radium isotopes. The liquids appear to stay separated in the jar, but after heating them, and then decanting the red solvent into another jar to be heated separately, the team was left with a layer of clear water.

Study of possible economical ways of removing radium from drinking water (Technical Report)

Iron removal processes are discussed in relation to radium removal. The most efficient method of radium removal is based on the application of barium chloride, implemented in full technical scale in two of Polish collieries. Ion exchange, including strong acid and weak acid resin, is discussed.

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. The capacities of these mixed oxides for sorption of radium depend on the composition of the solid phase, the pH of the aqueous solution, and the presence of competing cations.

Study of possible economical ways of removing radium from drinking water (Technical Report)

The sorption of radium ^{226}Ra on different adsorbent, modified bentonite Na-B and a mixture of modified bentonite coated by Manganese oxide Mn-NaB was studied. Removals in the field were less when simultaneous iron and radium removal was attempted.

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Adsorption process provides an alternative treatment in comparison with other removal techniques. The present study focuses at the option to improve the sorption properties of bentonite via its modification and presents the possibility to remove radium cations from the uranium effluent solutions by the usage of non-homogenous bentonite coated by manganese oxides. Batch experiments confirmed that sorption of radium by a mixed iron-manganese oxide solid phase shows promise for treating radium-contaminated water.

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