Demineralization by ion exchange in water treatment and chemical processing of otherliquids

Academic Press - 10 ion exchange process



seserch on ion exchange membranes began in 1958 with the development of the fi membrane realised in PVA [1]. Many types of membranes have been studied as veloped since, but the most widely used are heterogeneous membranes physhyrene-divinyllbenzene. The research work on homogeneous ion exchange membranes began, instead, in 1970 [2]. In the 1990s, China produced cation is

Description: -

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Saline water conversion -- Ion exchange process. Demineralization by ion exchange in water treatment and chemical processing of other liquids

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Notes: Includes bibliographies. This edition was published in 1968



Filesize: 56.99 MB

Tags: #10 #ion #exchange #process

What Is Ion Exchange?

Sufficient alkalinity also reduces the corrosiveness of water to iron pipes. Alternately, water purity can be quickly estimated on the basis of electrical conductivity or resistance — very pure water conducts electricity poorly, so its resistance is high. Not only does high-purity water rapidly pick up contaminants - such as carbon dioxide CO 2 - that affect its pH, but it also has a low conductivity that can affect the accuracy of pH meters.

Problems of Ion

Water treatment for the refining industry needs to be safe, reliable, and economical. Chlorine disinfection Main article: The most common disinfection method involves some form of or its compounds such as or.

DEMINERALIZATION(DM) WATER TREATMENT PLANTS

Capacity is defined as the amount of exchangeable ions a unit quantity of resin will remove from a solution. This water flow displaces the regenerant through the bed at the desired flow rate.

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Depending on the through which the water has flowed, other ions may also be present including, and.

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Whenever aluminum coagulants are used ahead of zeolite softeners, proper equipment operation and close control of clarifier pH are essential to good softener performance. The addition of inorganic coagulants such as or or iron III salts such as cause several simultaneous chemical and physical interactions on and among the particles.

Demineralized water system

Weak Acid and Weak Base Resins Weak functionality resins have a much higher regeneration efficiency than their strong function-ality counterparts. Mixed-bed IX Mixed-bed exchangers offer a higher water quality compared to twin-bed systems. When its capacity is exhausted, the resin can be regenerated with an excess of mineral acid.

Demineralization by Ion Exchange in Water Treatment and Chemical Processing ...

Simple procedures such as or the use of a household filter are not sufficient for treating all possible contaminants that may be present in water from an unknown source. Widely varied techniques are available to remove contaminants like fine solids, micro-organisms and some dissolved inorganic and organic materials, or. While the chemistry of individual ion exchange reactions varies from one application to the next, IX is a treatment process where dissolved ions are replaced by other, more desirable, ions of a similar electrical charge.

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