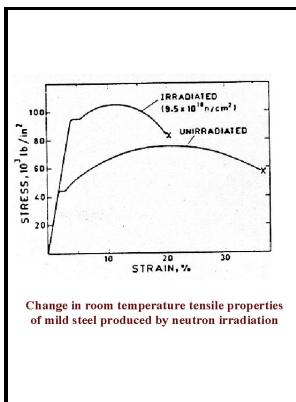


Effect of neutron irradiation and cold work on the strain ageing behaviour of Zircaloy-2

Australian Atomic Energy Commission, Research Establishment - The irradiation creep and growth phenomena



Description: -

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AAEC/TM 491 effect of neutron irradiation and cold work on the strain ageing behaviour of Zircaloy-2
Notes: Bibliography: p. 9-10.
This edition was published in 1968



Filesize: 39.49 MB

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Mechanism

The dimensional changes in 3 directions were measured, and a small volume increase 0. It is found that the generation of the oxide peaks is influenced by the variation of temperature and fast neutron flux along the tube.

Mechanism

Specimens machined in the form of circular rings directly from the nuclear reactor pressure tubes and tested in a ring-tension test-setup offer great simplicity in evaluating the transverse mechanical properties of the as-manufactured as well as those of the service-exposed tubes. Papazoglou, Eds, American Society for Testing and Materials, West Conshohocken, PA, 1979, 230-237.

IRRADIATION EFFECTS ON ZR

Considerable recovery during irradiation at the elevated temperatures was suggested by the properties reaching constant values at fairly low flux levels.

IRRADIATION EFFECTS ON ZR

These pressure tubes were annealed after final cold work. The necking of the gauge-length results in significant reduction in cross-section and the interface contact condition breaks and the necked-region now starts deforming independently.

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