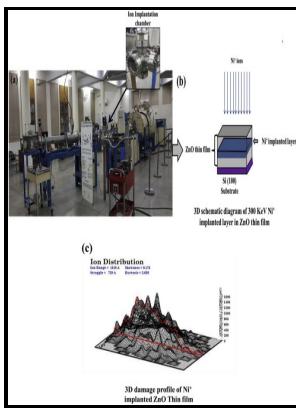


Influence of ion implantation on the oxidation of nickel and stainless steel.

University of Salford - The effects of ion implantation upon nickel oxidation investigated by secondary ion mass spectrometry



Description: -

-influence of ion implantation on the oxidation of nickel and stainless steel.

-

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Tags: #[PDF] #The #influence #of #tin #implantation #on #the #oxidation #of #iron

[PDF] The influence of tin implantation on the oxidation of iron

X-ray photoemission spectroscopy and glancing angle X-ray diffraction were employed to analyze the valence states of the oxide scale and the phase composition of the oxidation layers. After 120 s, the grain boundary migration induces the formation of new fine Nb C,N particles, whereas the pre-existing particles become enriched in Ni and Si. The implanted surface and the corrosion products formed were characterized by means of AES, SEM, EDS and XRD.

Improved high temperature oxidation behaviour of alloys by ion implantation

Ion implantation of Sn reduces the oxidation rate constant of iron up to a factor of 10 at all experimental temperatures.

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The results revealed that stainless steels with low nickel content i.

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The book includes papers on aqueous corrosion of ion-implanted iron; the mechanical properties and high temperature oxidation behavior in aqueous corrosion; and the potential of ion beam processing in this field of materials science and engineering. This steel grade is used as cladding material in advanced gas-cooled fission reactors, due to its resistance to thermal creep and water corrosion. The results show that yttrium and erbium have similar effects, reducing the rate of continuing scale growth and inhibiting....

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