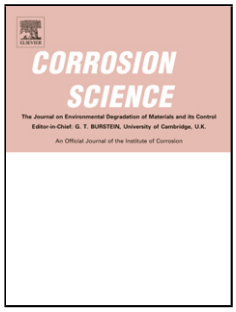

Title: Primary Water Stress Corrosion Cracking Behavior of an Alloy 600/182 Weld

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Highlights

Alloy 182 weld has a highly anisotropic microstructure depending on its orientation.

PWSCC mode of Alloy 182 weld metal is intrinsically intergranular.

Cracks initiate and propagate along random high angle grain boundaries in Alloy 182.

Alloy 182 is more susceptible to PWSCC than Alloy 600 in metallurgical aspects.