

Title (en)

HIGH-FREQUENCY ULTRASOUND MEASUREMENT OF PARTIAL LAYER THICKNESS OF THIN-WALLED NUCLEAR FUEL CLADDING TUBES BY A CONTACT METHOD

Title (de)

HOCHFREQUENTE ULTRASCHALLMESSUNG VON TEILSCHICHTDICKEN DÜNNWANDIGER KERNBRENNSTOFF-HÜLLROHRE IN KONTAKTTECHNIK

Title (fr)

MESURE ULTRASONIQUE HAUTE FREQUENCE D'EPAISSEURS DE COUCHES PARTIELLES DE TUBES DE GAINAGE POUR COMBUSTIBLE NUCLEAIRE A PAROIS FINES AU MOYEN D'UN PROCEDE DE CONTACT

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Application

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Abstract (en)

[origin: WO02079725A1] The invention relates to a method for ultrasound measurement of the layer thickness of thin-walled tubes. The inventive method is characterized in that a high-frequency probe (3) (more than 40 MHz) with a coupling area (4) is used that has a planar area surface. Said area surface is coupled to the tube surface (12) that is wetted with a coupling agent (8) by way of a contact method. The inventive method is used for duplex or liner layers of 0.15 mm thickness of reactor fuel cladding tubes.

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