

عنوان مقاله:

3D CORROSION MEASUREMENT USING THE LASER BEAM SCANNING METHOD

محل انتشار:

اولین کنفرانس بین المللی و هفتمین کنفرانس ملی مهندسی ساخت و تولید (سال: 1384)

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خلاصه مقاله:

The early detection and measurement of corrosion plays a significant part in the safe operation of pipelines. Pipelines world wide are subject to corrosion, which is caused by damage to the pipeline wrapping during back filling operations and unsatisfactory cathodic protection. The methods used today to detect corrosion damage and material loss in pipelines are, Intelligent pigging and long-range ultrasonic testing. Three dimensional (3D) laser profile measurement of the corroded surface has proven to be a rapid and accurate method of measuring corrosion depth and the related software programs enable on site reporting, corrosion mapping and finite element analysis.

کلمات کلیدی:

Corrosion, Measurement, Laser

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