

Download Practical Guide To Ultrasonic Testing

STAKING GENERAL As with ultrasonic welding and inserting, ultrasonic staking employs the same principles of creating localized heat through the application of high-frequency vibrations. Many staking Ultrasonic welding is an industrial technique whereby high-frequency ultrasonic acoustic vibrations are locally applied to workpieces being held together under pressure to create a solid-state weld. It is commonly used for plastics and metals, and especially for joining dissimilar materials. In ultrasonic welding, there are no connective bolts, nails, soldering materials, or adhesives necessary ... Ultrasonic testing is a type of nondestructive testing commonly used to find flaws in materials and to measure the thickness of objects. Frequencies of 2 to 10 MHz are common, but for special purposes other frequencies are used. Inspection may be manual or automated and is an essential part of modern manufacturing processes. The primary references for the API TES Tank Entry Supervisor certification exam are ANSI/API Standard 2015 (defines requirements), and its companion ANSI/API RP 2016 (provides guidance for developing and safely implementing plans in accordance with requirements of API 2015).