



Short Range Ultrasonic Testing

Introduction

SRUT is an application of guided ultrasonic sound waves using special types of probes. When the guided waves hit the discontinuities, the mode converted sound is reflected and received by the transducer.

The major benefit of this technique is that it can be used to detect corrosion on plates and pipes that are inaccessible due to support structures, braces, brackets, saddles, legs, under insulations or other types of obstructions in the way of the region of interest. Another application is steel structures coated or surrounded by concrete

Also designed to test the annular plate of above ground storage tanks (AST's) while the tank remains in-service and for detecting corrosion under pipe supports..

Applications

Most ideal Applications of SRUT are:

- ✓ Used for rapid detection of corrosion and erosion including sizing in accessible areas for up to 2metres length under structures.
- ✓ Can detect metal loss in steel plates and pipe walls concealed under the support structures or annular plates in tanks.
- ✓ Tank floor annular ring, annular plate.
- ✓ Steel having concrete coated interfaces.
- ✓ Under pipe support and pressure vessel support.
- ✓ Pipes above 200mm diameter and any flat surface.

