



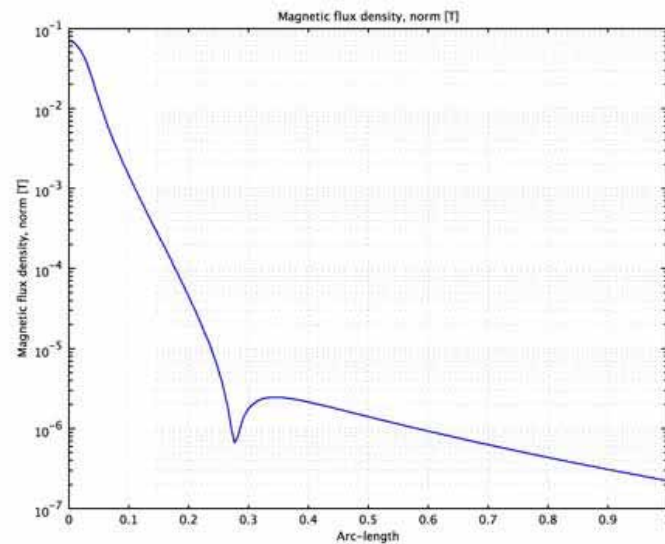
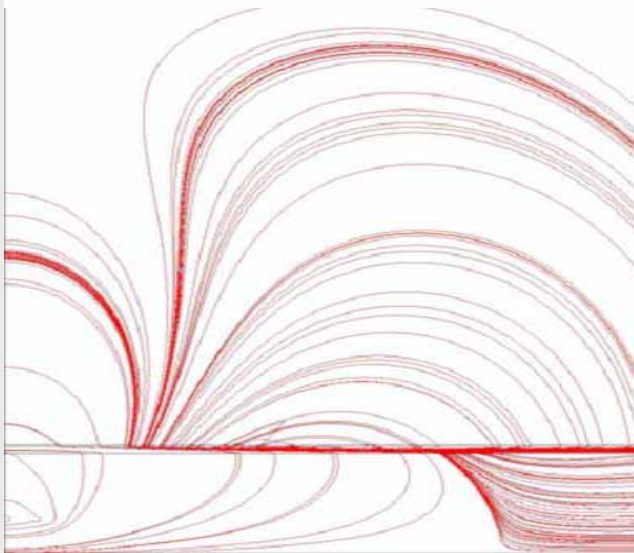
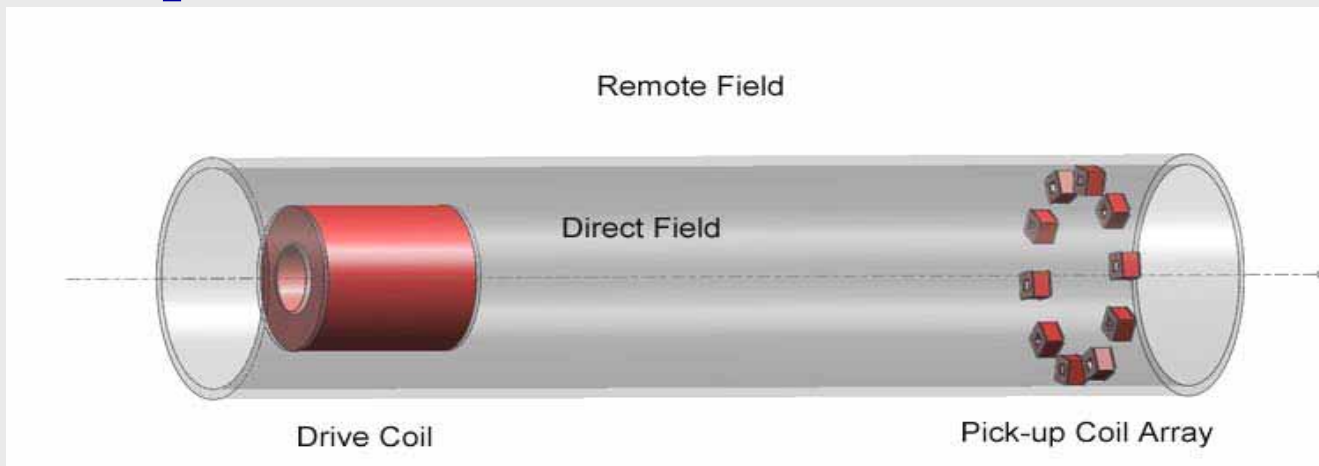
GTI Current Programs

Albert Teitsma

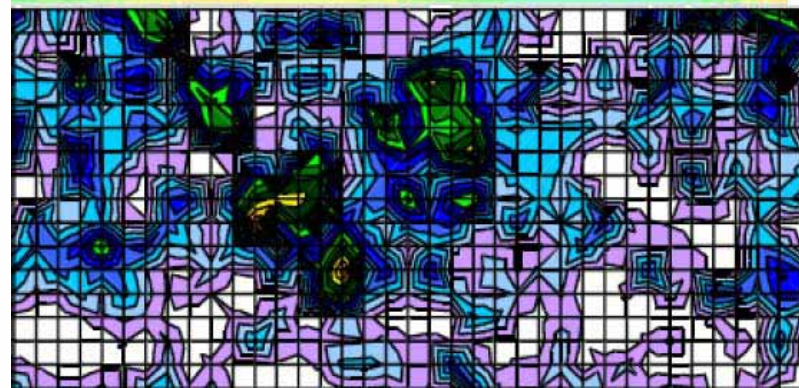
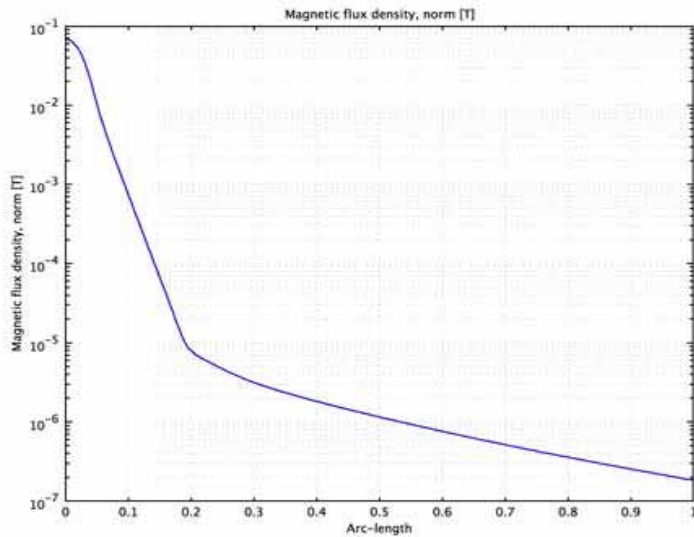
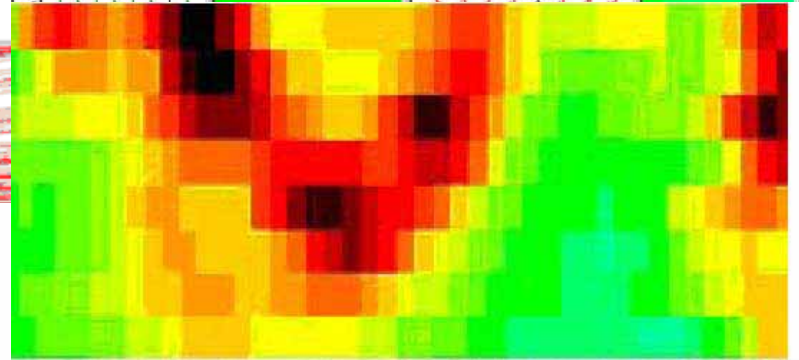
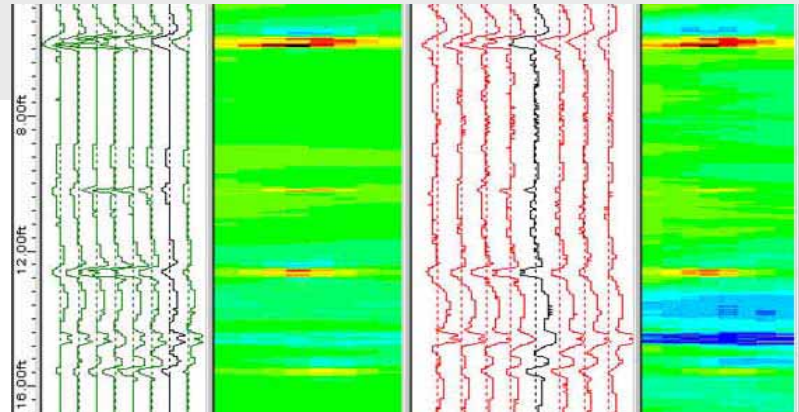
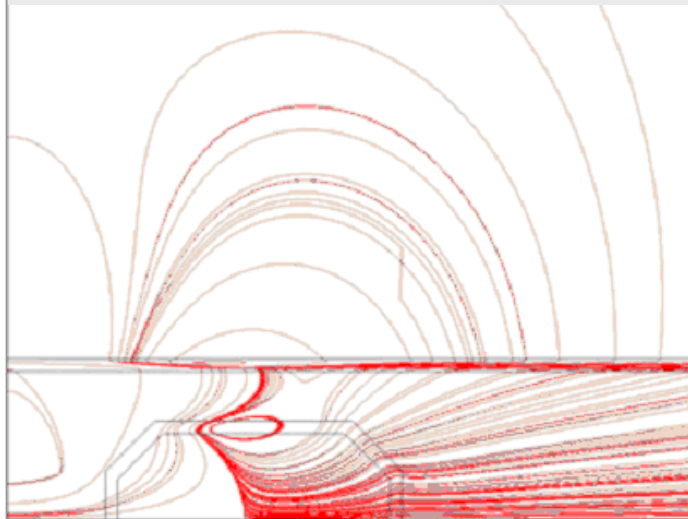
Defect Detection/Characterization
DOT PHMSA Government/Industry
Pipeline R&D Forum

New Orleans, LA
7 February 2007

Remote Field Eddy Current Inspection

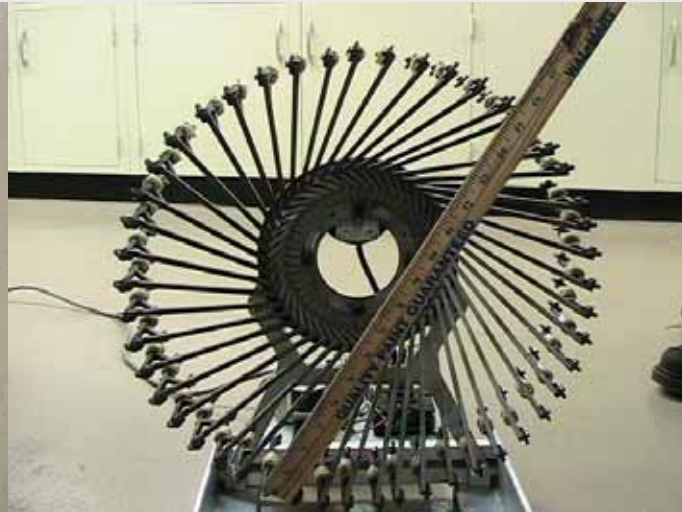


Remote Field Eddy Current Inspection



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Remote Field Eddy Current Inspection



gtiSM

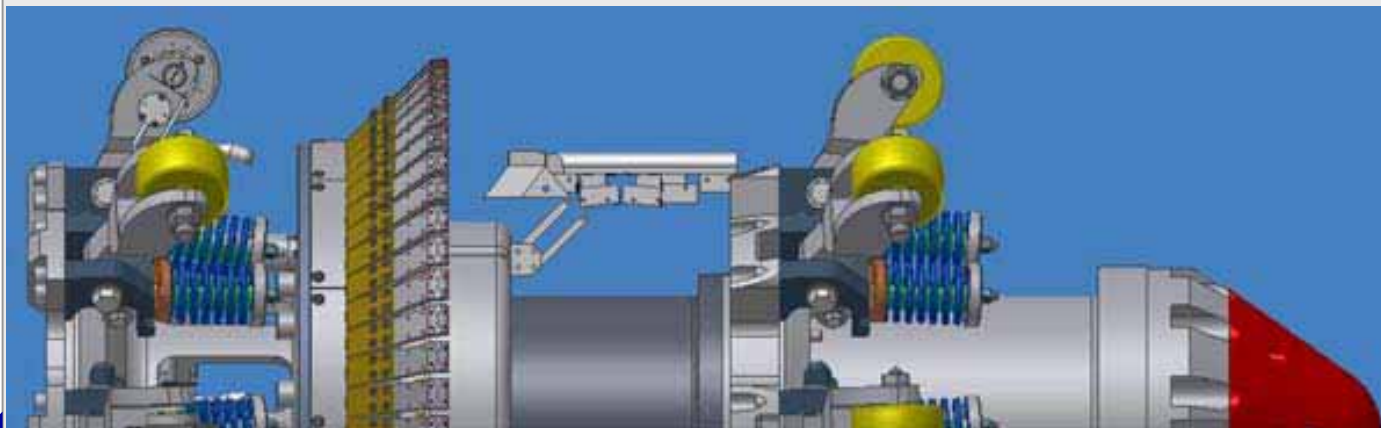
DOT PHMSA Government/Industry Pipeline R&D Forum, 7 February 2007

Gas Coupled Ultrasonic Inspection

- > Accurate corrosion depths
- > Cracking
- > Stress Corrosion Cracking (SCC)
- > Mechanical Damage
 - dent depth
 - gouge depth
 - material damage (work hardened zone)

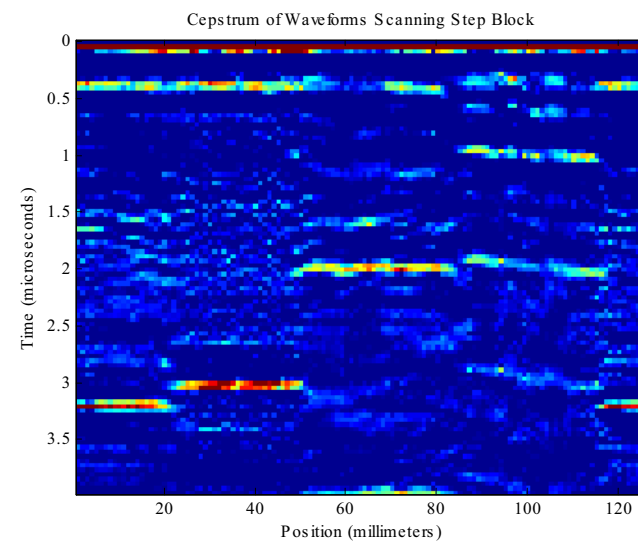
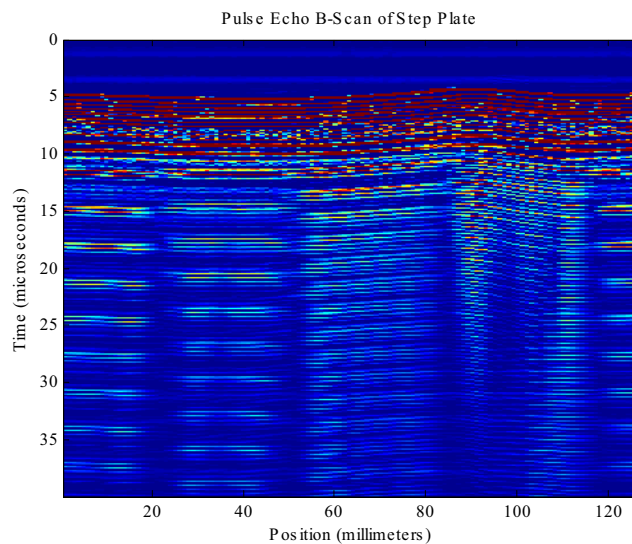
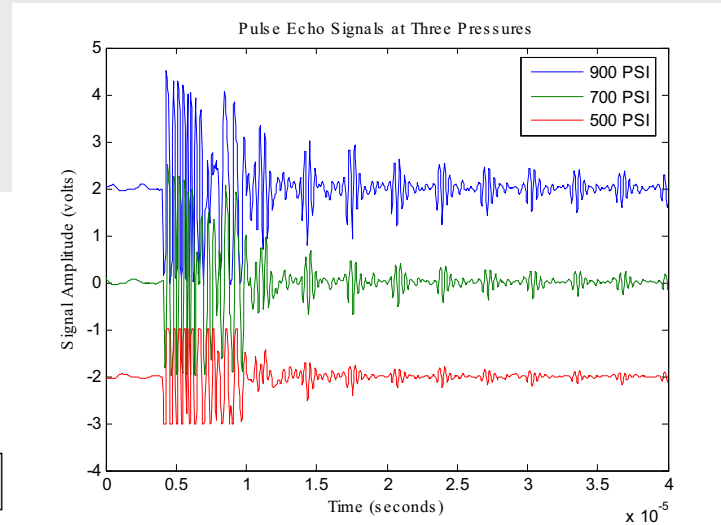
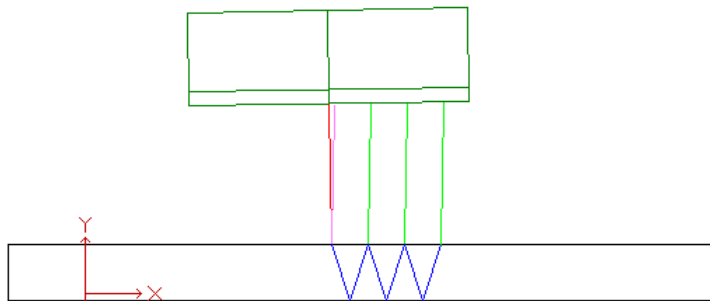


Gas Coupled Ultrasonic Inspection

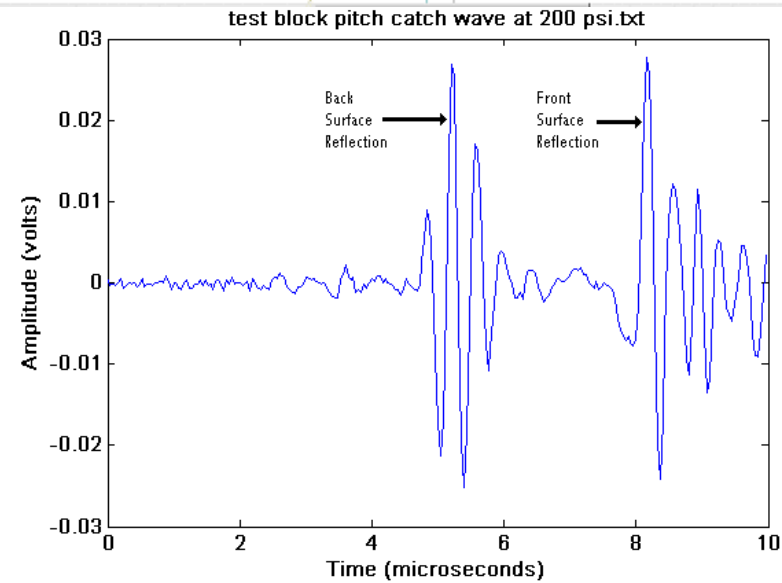
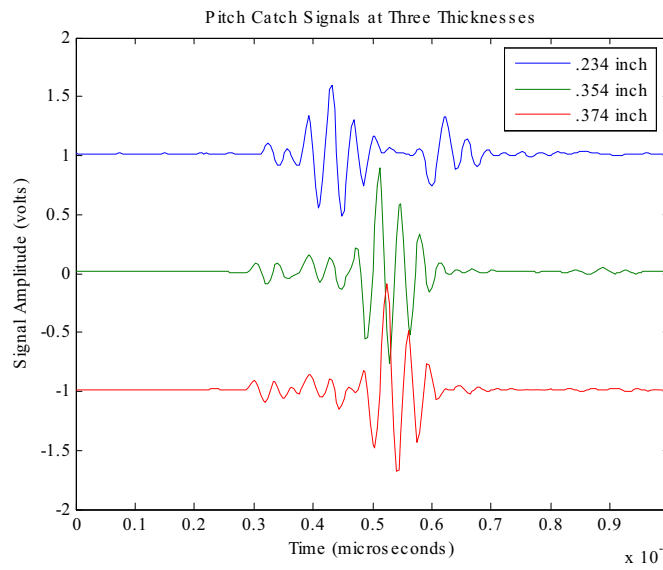
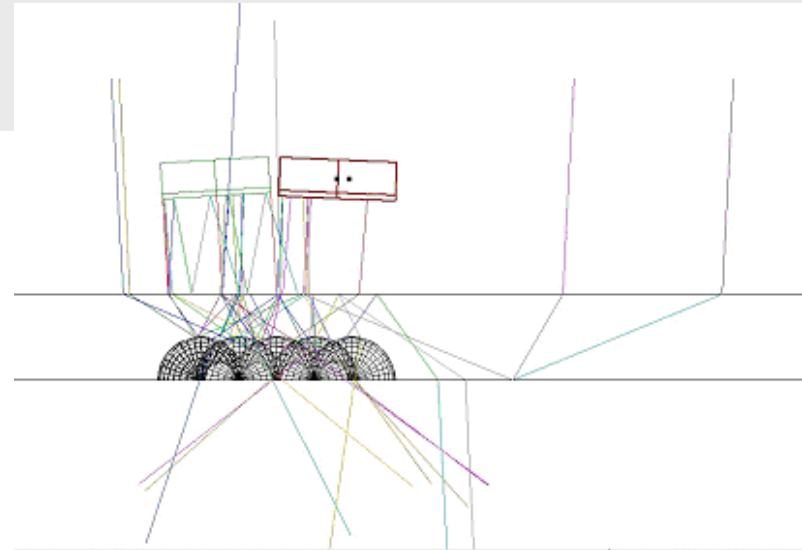
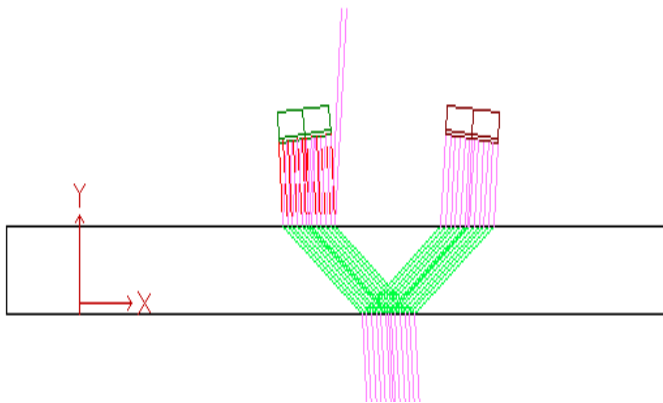


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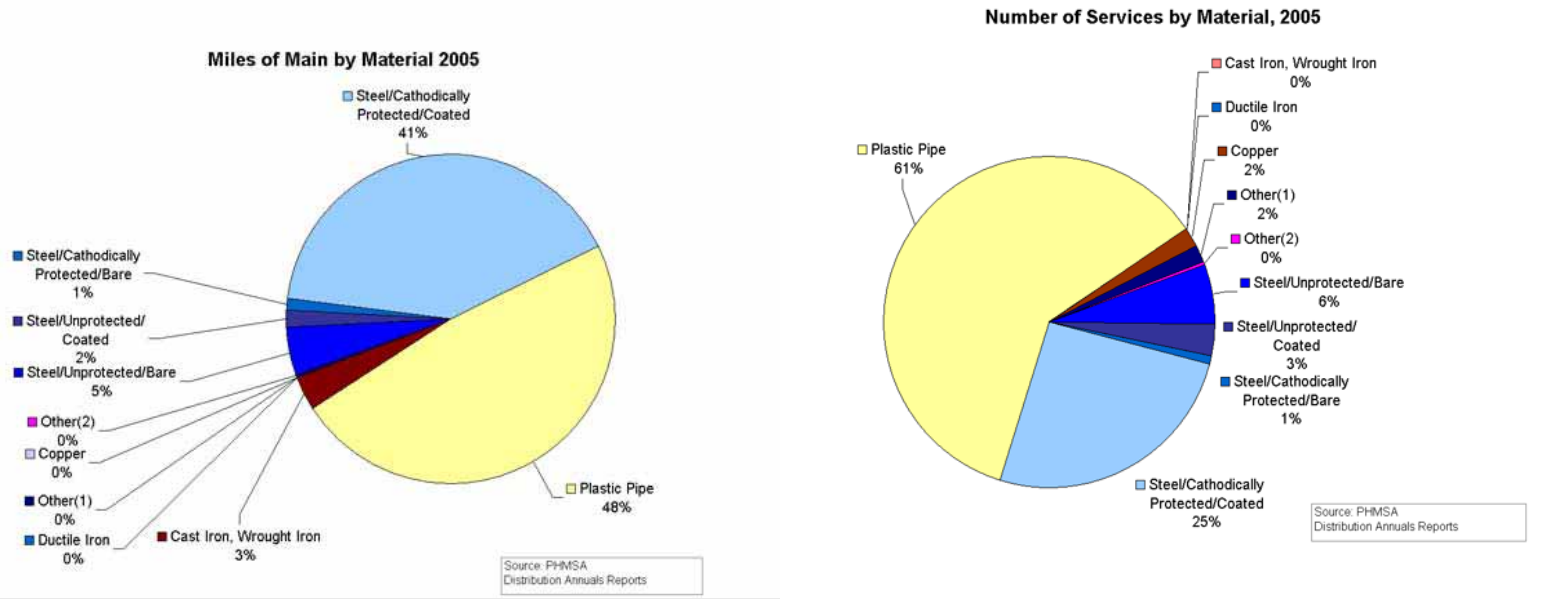
Gas Coupled Ultrasonic Inspection



Gas Coupled Ultrasonic Inspection

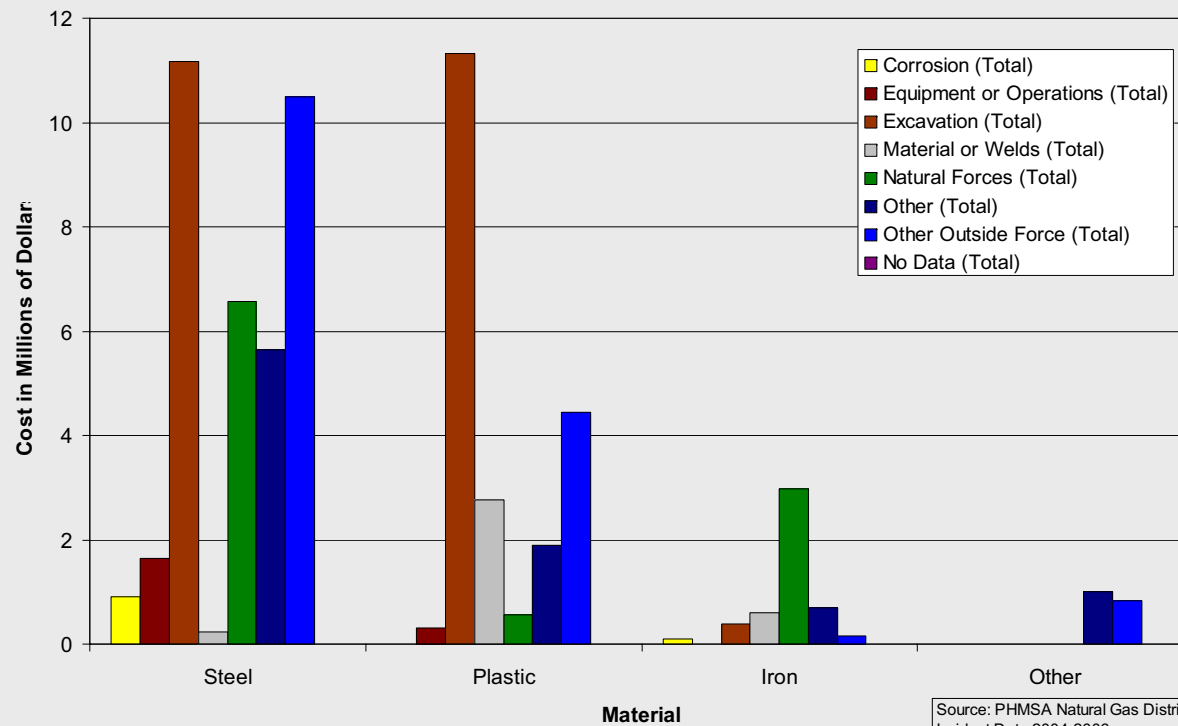


Distribution Integrity Management: Polyethylene Pipe Defects



Distribution Integrity Management: Polyethylene Pipe Defects

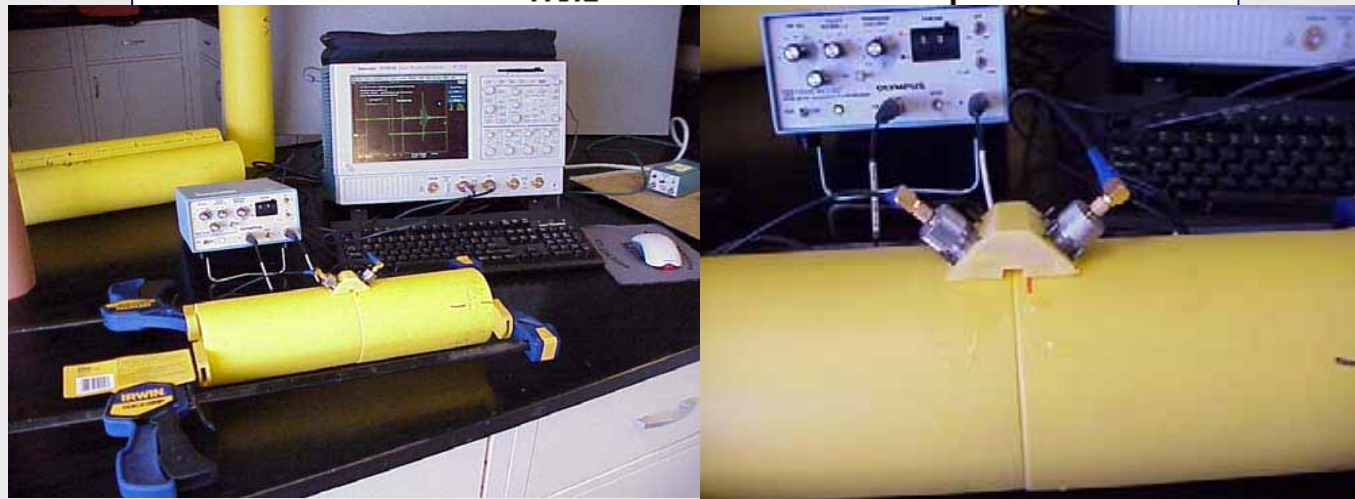
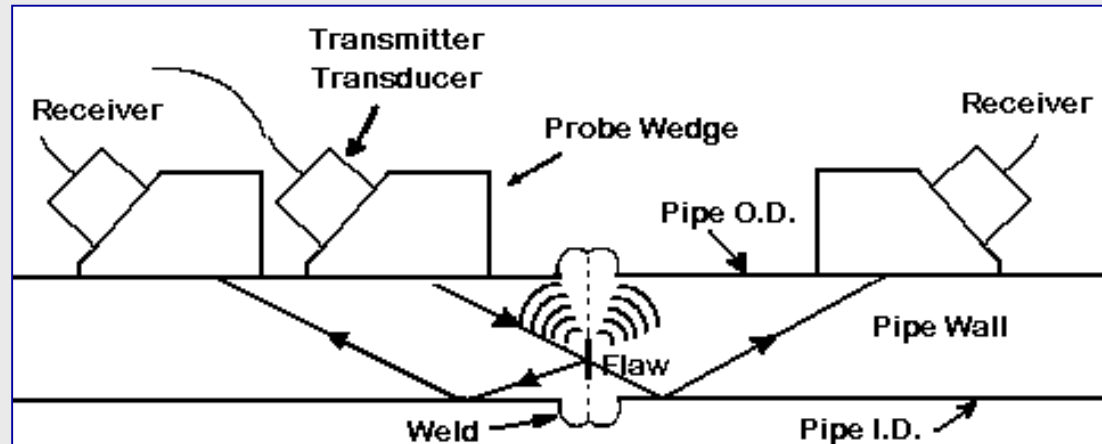
Cost by Cause and Material



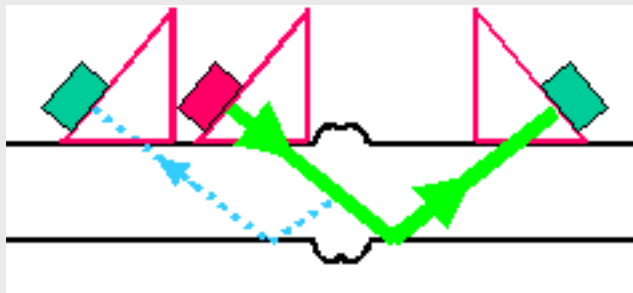
Source: PHMSA Natural Gas Distribution Incident Data 2004-2006



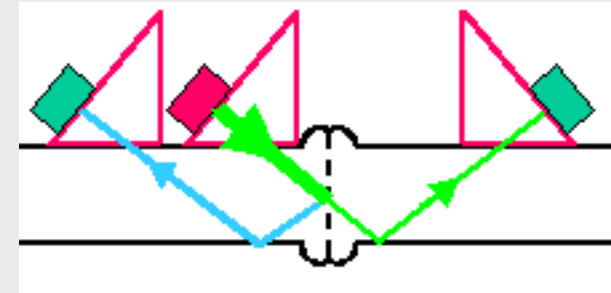
Polyethylene Ultrasonic Fusion Joint Inspection



Polyethylene Ultrasonic Fusion Joint Inspection



pink pipe, good fusion 1



pink pipe, poor fusion, excess 2

