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Paul N. Mincer
Master Technician

Education

Associate Degree, Ferrous Metallurgy, American Society for Metals, Metals Engineering Institute

Qualifications

Mr. Mincer worked at Battelle, Columbus from 1959 to 1997. He is skilled in all phases of mechanical testing (tensile, bend, impact toughness and hardness) and has performed data reduction for all the various testing procedures. He has applied this extensive practical background in laboratory technology to many materials including low and medium strength steels, high-strength steels, and polymethymethacrylate. He also has had the responsibility for specimen management on many large fracture programs. He has contributed greatly to the design and evaluation of crack arrest testing. He has co-authored 7 papers relating to crack arrest.

Relevant Experience

Fracture Resistance of Nuclear Piping Materials. Characterization of the crack-growth resistance in materials used in nuclear piping systems.

Battelle HSST Support Program. Characterization of the fracture toughness of reactor pressure vessel steels.

Toughness of HSLA Steels. Development of advanced methods for characterizing the fracture resistance of controlled-rolled steels. The research emphasizes microstructure-property relations.

Crack Arrest in Ship Steels. Experimental studies of crack propagation and arrest in ship-hull materials.

Fracture Evaluations of Materials Used in Off-Shore Platforms. Characterizing the fracture resistance and fracture-arrest toughness in the parent metal, weld metal, and heat-affected zones adjacent to weld

Paul N. Mincer Continued)

Publications

"Subsize Specimens for Crack-Arrest Testing", A. R. Rosenfield, C. W. Marschall, and P. N. Mincer, ASTM STP 791, pp. II 353-II 369.

"Reinitiation of An Arrested Cleavage Crack", A. R. Rosenfield, and P. N. Mincer, Engineering Fracture Mechanics", Vol. 18, pp. 1125-1129.

"High-Temperature Crack-Arrest Toughness Measurements Using Compact Specimens", A. R. Rosenfield, P. N. Mincer, and C. W. Marschall, Fracture Mechanics: Eighteenth Symposium, ASTM STP 945, D. T. Read and R. P. Reed, Eds., American Society for Testing and Materials, Philadelphia, 1988, pp. 73-85