

Resume

Fernando Dotta

Academic Background

Ph.D Degree in Fracture Mechanics and Structural Integrity
University of Sao Paulo – USP (2006)

Degree in Mechanical Engineering (2001)

Awards

American Society of Mechanical Engineers Best Student Paper 2003: Burst Pressure Predictions of Cracked Pipelines Using a Micromechanics Approach, ASME - Pressure Vessels and Piping Division, ASME Pressure Vessels and Piping.

Relevant Papers

DOTTA, F.; RUGGIERI, C., *Structural Integrity Assessments of High Pressure Pipelines with Axial Flaws Using a Micromechanics Model*. International Journal of Pressure Vessels and Piping, v. 81, n. 9, pp. 761-770, 2004.

DOTTA, F.; RUGGIERI, C., *Fracture Assessments os High Pressure Pipelines with Axial Flaws Including Constraint and Ductile Tearing Effects*. In: 9th European Mechanics of Materials Conference, 2006.

DOTTA, F.; RUGGIERI, C., *A Micromechanics Methodology for Defect Assessments in Pipelines*. In: International Conference on Fracture, 2005, Turin. 11th International Conference on Fracture, 2005.

DOTTA, F.; RUGGIERI, C., *A Failure Assessment Procedure for Cracked Pipelines Incorporating a Damage Criterion for Crack Growth*. In: 23rd International Conference on Offshore Mechanics and Arctic Engineering - OMAE 2004, 2004, Vancouver, CANADA.

Main Knowledge Areas

- Structure Health Monitoring
- Linear and Non-Linear Fracture Mechanics
- Structural Integrity
- Finite Element Analysis
- Fatigue and Damage Tolerance

