

Table of Contents

Committees

Preface

Numerical Simulation of Multiple Scattering by Hidden Cracks under the Incidence of Elastic Waves	
A. Rodríguez-Castellanos and F.J. Sánchez-Sesma	1
Fatigue Crack Growth in SAW Welded Joints of API 5L Steel Pipe in the Short Radial Direction	
D. Angeles Herrera and J.L. González Velázquez	9
Transferability of the Gurson Damage Model Parameters with Charpy and Tensile Tests with Different Constrain Level	
R. Cuamatzi Melendez and J.R. Yates	19
Mechanics of Randomly Folded Thin Materials	
O. Susarrey Huerta, M. Mendoza Nuñez, P.A. Tamayo Meza and A.S. Balankin	33
Effect of Mixed Mode Loading Induced by Asymmetrical Stress upon Crack Initiation from Corrosion Pits	
N. Acuña-González, J. González-Sánchez, E. Contreras and I. Saucedo	39
Evaluation of Brittle Layers Obtained by Boriding on AISI H13 Steels	
N. López-Perrusquia, I. Campos-Silva, J. Martínez-Trinidad, A. Avilés, E. Álvarez-Castañeda and S. Juárez-Torres	47
Short Crack Propagation Model Applied to Shot Peened Aluminium Alloys	
J. Solís, J. Oseguera-Peña and I. Betancourt	53
Effect of Boriding on the Mechanical Properties of AISI 1045 Steel	
G. Rodríguez-Castro, I. Campos-Silva, J. Martínez-Trinidad, U. Figueroa-López, D. Meléndez-Morales and J. Vargas-Hernández	63
Verification of the Ultrasonic Qualification for Structural Integrity of Partially Concrete Embedded Steel Elements	
J.A. López, F.J. Carrión, J.A. Quintana, D. Samayoa, M.G. Lomeli and P.R. Orozco	69
Rotating Bending Fatigue Tests on Aluminum Alloy AISI-SAE 6061-T6 at High Speed (150 Hz), and Close to Elastic Limit	
G. Domínguez Almaraz, E. Tapia Silva, M. Guzmán Tapia and J. Villalón López	79
Residual Strength and Fracture Path for Drilled Epoxy-Glass Composites	
M. Torres, J.L. Gonzalez and H. Hernandez	89