

Contents

Editorial	
Fifty years of quality assurance	74
E Patterson Tree Control of the Cont	
Original Articles	
Experimental identification of flow properties of a S355 structural steel for hot deformation processes D Schmicker, S Paczulla, S Nitzschke, S Groschopp, K Naumenko, S Jüttner and J Strackeljan	75
Inverse determination of the regularized residual stress and eigenstrain fields due to surface peening	84
SA Faghidian	
Space-compatible strain gauges as an integration aid for the James Webb Space Telescope Mid-Infrared Instrument	92
P Samara-Ratna, J Sykes, C Bicknell, J Pye, NC Jessen, HU Nøgaard-Nielsen	
Constitutive modeling of elastic-visco-plastic behaviors in aluminum alloys subjected to cyclic	
loadings at various strain rates	103
M Felfeli, M Azadi and GH Farrahi	
A new approach for the correction of stress-strain curves after necking in metals	125
G-H Majzoobi, F Fariba, MK Pipelzadeh and SJ Hardy	
Extension of an energy-based life prediction method to low and combined cycle fatigue regimes	138
C Holycross, M-H Herman Shen, O Scott-Emuakpor and T George	