

Contents

A Review of Friction Stir Welding Pin Profile	1
S. Emamian, M. Awang, F. Yusof, P. Hussain, M. Mehrpouya, S. Kakooei, M. Moayedfar and Adeel Zafar	
Friction Stir Welding of Polymers: An Overview	19
Adeel Zafar, M. Awang and Sajjad Raza Khan	
Variation of Tool Offsets and Its Influence on Mechanical Properties of Dissimilar Friction Stir Welding of Aluminum Alloy 6061 and S235JR Mild Steel by Conventional Belting Milling Machine	37
W.M. Syafiq, M. Afendi, R. Daud, M.N. Mazlee and N.A. Jaafar	
Fracture Behavior of Intermetallic Compound (IMC) of Solder Joints Based on Finite Elements' Simulation Result	49
E.P. Ooi, R. Daud, N.A.M. Amin, F. Mat, M.H. Sulaiman, M.S. Abdul Majid, M. Afendi and A.K. Ariffin	
Effect of Isothermal Aging on Mechanical Properties of Sn-3.0Ag-0.5Cu Solder Alloy with Porous Cu Interlayer Addition	59
N.H. Jamadon, N.D. Ahmad, F. Yusof, T. Ariga, Y. Miyashita and M.H.A. Shukor	
On Amorphous Phase Formation in Dissimilar Friction Stir Welding of Aluminum to Steel	69
S.A. Hussein, A.S.M. Tahir and M. Awang	
Influence of Loading Rate on Deformation Behaviour and Sealing Performance of Spiral Wound Gasket in Flange Joint	83
N. Rino Nelson, N. Siva Prasad and A.S. Sekhar	

Effect of Bevel Angles on Tensile Strength of SS304 Steel Weld Joints 95
S.R. Pedapati, A.B. Sidiq, M. Awang, F.M. Hashim and S. Jebaraj

Developing a Finite Element Model for Thermal Analysis of Friction Stir Welding by Calculating Temperature Dependent Friction Coefficient 107
B. Meyghani, M. Awang, S. Emamian and Nor M. Khalid



<http://www.springer.com/978-981-10-4231-7>

2nd International Conference on Mechanical,
Manufacturing and Process Plant Engineering
Awang, M. (Ed.)

2017, VI, 126 p. 72 illus., 54 illus. in color., Softcover
ISBN: 978-981-10-4231-7