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| 11/04/2019 |

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| In this issue  |
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[Mechanical properties of wire plus arc additive manufactured steel and stainless steel structures](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI1zITk2jyo03h&s=GJJHHILIPJIDDPGJ) P. Moore, A. Addison & M. Nowak-Coventry |

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[Numerical investigation of stirred zone shape and its effect on mechanical properties in friction stir welding process](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI23ITk2jyo03h&s=GJJHHILIPJIDDPGJ) Prashant Prakash, Sanjay Kumar Jha & Shree Prakash Lal |

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[Production of ship steel—titanium bimetallic composites through explosive cladding](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI27ITk2jyo03h&s=GJJHHILIPJIDDPGJ) Yakup Kaya & Gökhan Eser |

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[Improvement of the joint quality in the high-frequency induction welding of pipes by edge modification](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI2bITk2jyo03h&s=GJJHHILIPJIDDPGJ) Morteza Ghaffarpour, Davood Akbari, Hasan Moslemi Naeeni & Sajad Ghanbari |

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[Analysis of the thermo-mechanical mechanism during ultrasonic welding of battery tabs using high-speed image capturing](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI2fITk2jyo03h&s=GJJHHILIPJIDDPGJ) I. Balz, E. Rosenthal, A. Reimer, M. Turiaux, A. Schiebahn & U. Reisgen |

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[Reduction in liquid metal embrittlement cracking using weld current ramping](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI2jITk2jyo03h&s=GJJHHILIPJIDDPGJ) Christopher DiGiovanni, S. Bag, C. Mehling, K. W. Choi, A. Macwan, E. Biro & N. Y. Zhou |

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[Characteristics of resistance projection–welded aluminum-copper interconnects](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI2nITk2jyo03h&s=GJJHHILIPJIDDPGJ) Gregor Gintrowski, Uwe Reisgen, Alexander Schiebahn, Malte Schmachtenberg & Viktor Hibert |

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[Mechanical properties of the inertia friction welded aluminum/stainless steel joint](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI2rITk2jyo03h&s=GJJHHILIPJIDDPGJ) Yong Liu, Haiyan Zhao, Yun Peng & Xiaofei Ma |

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[Critical design parameters of the electrode for liquid metal embrittlement cracking in resistance spot welding](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI2vITk2jyo03h&s=GJJHHILIPJIDDPGJ) Siva Prasad Murugan, Kaisar Mahmud, Changwook Ji, Ilguk Jo & Yeong-Do Park |

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[Effect of internal oxidation on the weldability of CMnSi steels](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI2zITk2jyo03h&s=GJJHHILIPJIDDPGJ) Xu Han, Christopher DiGiovanni, Joseph McDermid, Elliot Biro & Norman Y. Zhou |

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[In-process monitoring of micro series spot welding using dual accelerometer system](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI33ITk2jyo03h&s=GJJHHILIPJIDDPGJ) Han Jun Lin & Hee Seok Chang |

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[Quality of dissimilar welded particle-reinforced TRIP/TWIP steels generated by electron beam braze-welding](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI37ITk2jyo03h&s=GJJHHILIPJIDDPGJ) Rudy Laubstein, Lars Halbauer, Stefan Martin, Volker Klemm, Rolf Zenker, Anja Buchwalder & Horst Biermann |

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[Remanufacturing of die casting dies made of hot-work steels by using the wire-based electron-beam welding with an in situ heat treatment](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI3bITk2jyo03h&s=GJJHHILIPJIDDPGJ) T. Schuchardt, S. Müller & K. Dilger |

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[Characterization of eutectic borides formed during solidification of borated stainless steel 304B4](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI3fITk2jyo03h&s=GJJHHILIPJIDDPGJ) M. Divya, S. K. Albert & V. Thomas Paul |

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[A 2nd−order SCF solution for modeling distortion effects on fatigue of lightweight structures](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI3jITk2jyo03h&s=GJJHHILIPJIDDPGJ) Wenqing Zhou, Pingsha Dong, Ingrit Lillemae & Heikki Remes |

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[An analytical method for interpreting distortion effects on fatigue test results of thin plate panel specimens](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI3nITk2jyo03h&s=GJJHHILIPJIDDPGJ) P. Dong, W. Zhou & S. Xing |

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[Application of fracture mechanics to welds with crack origin at the weld toe: a review Part 1: Consequences of inhomogeneous microstructure for materials testing and failure assessment](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI3rITk2jyo03h&s=GJJHHILIPJIDDPGJ) U Zerbst |

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[Aluminum-steel dissimilar robotic arc spot welding with auxiliary insert](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI3vITk2jyo03h&s=GJJHHILIPJIDDPGJ) Reiichi Suzuki & Chin Ryo |

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[Experimental study of arc bubble growth and detachment from underwater wet FCAW](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI3zITk2jyo03h&s=GJJHHILIPJIDDPGJ) Jianfeng Wang, Qingjie Sun, Tao Zhang, Pengwei Xu & Jicai Feng |

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[Welding parameter selection and short fatigue crack growth of dissimilar aluminum alloy friction stir welded joint](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI43ITk2jyo03h&s=GJJHHILIPJIDDPGJ) Guo-Qin Sun, Guo-Sheng Xu, De-Guang Shang & Shu-Jun Chen |

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[Development of a computational fatigue model for evaluation of weld quality](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI47ITk2jyo03h&s=GJJHHILIPJIDDPGJ) T. Stenberg, Z. Barsoum, J. Hedlund & J. Josefsson |

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[High-resolution 3D weld toe stress analysis and ACPD method for weld toe fatigue crack initiation](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI4bITk2jyo03h&s=GJJHHILIPJIDDPGJ) S. Chaudhuri, J. Crump, P. A. S. Reed & B. G. Mellor |

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| Research Paper |  |

[The impact of production-dependent geometric properties on fatigue-relevant stresses in laser-welded corrugated core steel sandwich panels](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI4fITk2jyo03h&s=GJJHHILIPJIDDPGJ) Peter Nilsson, Joakim Hedegård, Mohammad Al-Emrani & Seyed Rasoul Atashipour |

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| Research Paper |  |

[Adhesive bonding of FDM-manufactured parts made of ULTEM 9085 considering surface treatment, surface structure, and joint design](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI4jITk2jyo03h&s=GJJHHILIPJIDDPGJ) Franziska Bürenhaus, Elmar Moritzer & André Hirsch |

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| Research Paper |  |

[Investigation of Surface Roughness Parameter in Dissimilar Diffusion Brazing of WC-Co to AISI 4145 Steel](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI4nITk2jyo03h&s=GJJHHILIPJIDDPGJ) Ali Amirnasiri, Nader Parvin & Mahdi Shafiei Haghshenas |

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| Research Paper |  |

[Effect of Zn and mechanical vibration agitation on the microstructure evolution in brazed joint of SiC particle-reinforced aluminum matrix composites](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI4rITk2jyo03h&s=GJJHHILIPJIDDPGJ) Biqiang Chen & Guifeng Zhang |

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| Research Paper |  |

[Performance comparison of Al-Si-Ti and Co-Si-V-Ti braze alloys in the vacuum brazing of reaction-bonded silicon carbide](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI4vITk2jyo03h&s=GJJHHILIPJIDDPGJ) Juan Wei, Juan Carlos Madeni, Stephen Liu, Scott Nelson & Ray Xu |

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| Research Paper |  |

[Development and construction of AISI H11/ZrO2 joints for injection molding tools](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI4zITk2jyo03h&s=GJJHHILIPJIDDPGJ) W. Tillmann, N. B. Anar, M. Manka, L. Wojarski & B. Lehmert |

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| Research Paper |  |

[A simulation-aided least squares reconstruction scheme for the measurement of welding process heat flux distributions](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI53ITk2jyo03h&s=GJJHHILIPJIDDPGJ) M. Trautmann, M. Hertel, S. Jäckel & U. Füssel |

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| Research Paper |  |

[Modeling and simulation of weld solidification cracking part III](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI57ITk2jyo03h&s=GJJHHILIPJIDDPGJ) J. Draxler, J. Edberg, J. Andersson & L. -E. Lindgren |

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| Correction |  |

[Correction to: Fatigue assessment of the welded joints containing process relevant imperfections](http://alerts.springer.com/re?l=D0In6djfmI6hqu6ixI5bITk2jyo03h&s=GJJHHILIPJIDDPGJ) Ehsan Javaheri, Kimiya Hemmesi, Peter Tempel, René Fenzl & Majid Farajian |

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