

Accepted Manuscript

On the interaction between welding residual stresses: a numerical and experimental investigation

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PII: S0020-7403(17)33344-1
DOI: [10.1016/j.ijmecsci.2018.04.055](https://doi.org/10.1016/j.ijmecsci.2018.04.055)
Reference: MS 4319



To appear in: *International Journal of Mechanical Sciences*

Received date: 28 November 2017
Revised date: 25 April 2018
Accepted date: 26 April 2018

Please cite this article as: Gervasio Salerno, Chris Bennett, Wei Sun, Adib Becker, Nunzio Palumbo, Joe Kelleher, Shu Yan Zhang, On the interaction between welding residual stresses: a numerical and experimental investigation, *International Journal of Mechanical Sciences* (2018), doi: [10.1016/j.ijmecsci.2018.04.055](https://doi.org/10.1016/j.ijmecsci.2018.04.055)

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Highlights

- FE models predicted the redistribution of residual stress from fusion welding
- Residual stress correlation achieved with parent material properties in modelling
- A plane-stress state exists in the 6mm thick plates of IN718
- Care must be taken when existing residual stress exists in structures

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