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Summary

Keywords

- Composite materials
- fracture and fatigue
- residual stress
- the finite element method

Memberships

Organisations

[Department of Mechanical Engineering](#)

Other sites

- [Mecheng](#)

Research Groups

- [Bristol Composites Institute](#)
- [Solid Mechanics - Core](#)

Recent publications

- Gu, H, Shterenlikht, A & Pavier, M, 2019, '[Brittle fracture of three-dimensional lattice structure](#)'. *Engineering Fracture Mechanics*, vol 219.
- Gu, H, Li, S, Pavier, M, Attallah, MM, Paraskevoulakos, C & Shterenlikht, A, 2019, '[Fracture of three-dimensional lattices manufactured by selective laser melting](#)'. *International Journal of Solids and Structures*, vol 180-181., pp. 147-159
- Wales, C, Tierney, M, Pavier, M & Flewitt, P, 2019, '[Reducing steam transport pipe temperatures in power plants](#)'. *Energy*, vol 183., pp. 127-141
- Wu, G, Aird, CJ & Pavier, MJ, 2019, '[The effect of residual stress on a centre-cracked plate under uniaxial loading](#)'. *International Journal of Fracture*, vol 219., pp. 101-121
- Guo, X, Sun, W, Becker, A, Morris, A, Pavier, M, Flewitt, P, Tierney, M & Wales, C, 2019, '[Thermal and stress analyses of a novel coated steam dual pipe system for use in advanced ultra-supercritical power plant](#)'. *International Journal of Pressure Vessels and Piping*, vol 176.
- Becker, A, Pavier, MJ, Flewitt, PEJ, Tierney, MJ & Wales, CJA, 2019, '[Investigation of a novel design for steam transfer pipes in high temperature power plant](#)'. in: *ESIA15 & ISSI-2019 Joint Conference on Engineering Structural Integrity Assessment*.

- Li, Y, Shterenlikht, A, Pavier, M & Coules, H, 2019, '[Fatigue of thin periodic triangular lattice plates](#)', in: *Proceedings of the 12th International Conference on Multiaxial Fatigue and Fracture (ICMFF12)*.
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- Tierney, MJ & Pavier, MJ, 2018, '[Novel High Temperature Steam Transfer Pipes](#)'. in: *HEAT POWERED CYCLES 2018* ., pp. 147-148

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