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Area of research

Ultrasonics; Non-Destructive Testing (NDT); Ultrasonic array imaging; Tribology; Sensors

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Summary

Memberships

Organisations

[Department of Mechanical Engineering](#)

Other sites

- [Engineering](#)

Recent publications

- Du, F, Xu, C & Zhang, J, 2019, '[A bolt preload monitoring method based on the refocusing capability of virtual time reversal](#)'. *Structural Control and Health Monitoring*, vol 26.
- Budyn, N, Bevan, RL, Zhang, J, Croxford, AJ & Wilcox, PD, 2019, '[A Model for Multiview Ultrasonic Array Inspection of Small Two-Dimensional Defects](#)'. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, vol 66., pp. 1129-1139
- Zhang, J, Felice, M, Velichko, A & Wilcox, P, 2019, '[Angular and frequency behaviour of elastodynamic scattering from embedded scatterers](#)'. *Ultrasonics*, vol 99.
- Peng, C, Bai, L, Zhang, J & Drinkwater, BW, 2018, '[The sizing of small surface-breaking fatigue cracks using ultrasonic arrays](#)'. *NDT and E International*, vol 99., pp. 64-71
- Du, F, Xu, C, Wu, G & Zhang, J, 2018, '[Preload monitoring of bolted L-shaped lap joints using virtual time reversal method](#)'. *Sensors*, vol 18.
- Safari, A, Zhang, J, Velichko, A & Drinkwater, BW, 2018, '[Assessment methodology for defect characterisation using ultrasonic arrays](#)'. *NDT and E International*, vol 94., pp. 126-136
- Budyn, N, Bevan, R, Croxford, A, Zhang, J, Wilcox, P, Kashubin, A & Cawley, P, 2018, '[Sensitivity Images for Multi-View Ultrasonic Array Inspection](#)'. in: *44th Annual Review of Progress in Quantitative Nondestructive Evaluation*. American Institute of Physics (AIP)
- Wilcox, P & Zhang, J, 2018, '[Quantification of the Effect of Array Element Pitch on Imaging Performance](#)'. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, vol 65., pp. 600-616
- Bevan, R, Zhang, J, Budyn, N, Croxford, A & Wilcox, P, 2018, '[Experimental quantification of noise in linear ultrasonic imaging](#)'. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*.
- Hong, Z, Yin, J, Zhai, W, Wang, W, Zhang, J & Drinkwater, B, 2017, '[Dynamics of levitated objects in acoustic vortex fields](#)'. *Scientific Reports*, vol 7.

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