



Professor Anthony Croxford
M.Eng., Ph.D.(Bristol)

Professor of Ultrasonics and Dynamics

Office Room 2.48
Queen's Building,
University Walk, Clifton BS8 1TR
([See a map](#))

+44 (0) 117 331 5909
a.j.croxford@bristol.ac.uk

Summary

Guided wave structural health monitoring; defect classification and quantification using ultrasound; dynamics and control of fluidised beds.

Keywords

- Structures
- Dynamics

Memberships

Organisations

[Department of Mechanical Engineering](#)

Other sites

- [Mecheng](#)

Research Groups

- [Ultrasonics and Non-destructive Testing \(UNDT\) - Core](#)

Recent publications

- Budyn, N, Bevan, R, Zhang, J, Croxford, A & Wilcox, P, 2019, '[A model for multi-view ultrasonic array inspection of small two-dimensional defects](#)'. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*.
- Potter, JN, Wilcox, PD & Croxford, AJ, 2018, '[Diffuse field full matrix capture for near surface ultrasonic imaging](#)'. *Ultrasonics*, vol 82., pp. 44-48
- Velichko, A & Croxford, AJ, 2018, '[Strategies for data acquisition using ultrasonic phased arrays](#)'. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, vol 474.
- 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)
- 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*.
- Alston, J, Croxford, A, Potter, J & Blanloeuil, P, 2018, '[Nonlinear non-collinear ultrasonic detection and characterisation of kissing bonds](#)'. *NDT and E International*, vol 99., pp. 105-116
- Cox, L, Croxford, A, Drinkwater, BW & Marzo, A, 2018, '[Acoustic Lock: Position and orientation trapping of non-spherical sub-wavelength particles in mid-air using a single-axis acoustic levitator](#)'. *Applied Physics Letters*, vol 113.

- Potter, J & Croxford, A, 2018, '[Characterization of nonlinear ultrasonic diffuse energy imaging](#)'. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*.
- Alston, J & Croxford, A, 2017, '[Development of a nonlinear ultrasonic NDE technique for detection of kissing bonds in composites](#)'. in: *SPIE Smart Structure and Materials + Nondestructive Evaluation and Health Monitoring*.
- Courtier, M, Croxford, A & Atherton, K, 2017, '[An iterative design of experiments based data collection approach for ultrasonic guided waves](#)'. in: *43rd Annual Review of Progress in Quantitative Nondestructive Evaluation: (17–22 July 2016, Atlanta, Georgia, USA)*. American Institute of Physics (AIP)

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