

MPHY3900: Ultrasound in Medicine: Ben Cox

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Cobbold, R.S.C. (2007) Foundations of biomedical ultrasound. Oxford: Oxford University Press.

Cox, B. and Beard, P. (2015) 'Imaging techniques: Super-resolution ultrasound', Nature, 527(7579), pp. 451–452. Available at: <https://doi.org/10.1038/527451a>.

ter Haar, G. (2001) 'Acoustic surgery', Physics Today, 54(12), pp. 29–34. Available at: <https://doi.org/10.1063/1.1445545>.

Halliwel, M. (2010) 'A tutorial on ultrasonic physics and imaging techniques', Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 224(2), pp. 127–142. Available at: <https://doi.org/10.1243/09544119JEM656>.

Hoskins, P.R., Martin, K. and Thrush, A. (eds) (2010) Diagnostic Ultrasound: Physics and Equipment. 2nd ed. Cambridge: Cambridge University Press. Available at: <http://dx.doi.org/10.1017/CBO9780511750885>.

'How Ultrasound Works' (5AD). Available at: <https://www.youtube.com/watch?v=l1Bdp2tMFsY>.

Kinsler, L.E. (1982) Fundamentals of acoustics. 3rd ed. New York: Wiley.

LEIGHTON, T. (2007) 'What is ultrasound?', Progress in Biophysics and Molecular Biology, 93(1–3), pp. 3–83. Available at: <https://doi.org/10.1016/j.pbiomolbio.2006.07.026>.

O'Brien, W.D. and Dunn, F. (2015) 'An early history of high-intensity focused ultrasound', Physics Today, 68(10), pp. 40–45. Available at: <https://doi.org/10.1063/PT.3.2947>.

Obstetric ultrasound -- a comprehensive guide to ultrasound scans in pregnancy (no date). Available at: <http://www.ob-ultrasound.net/>.

Pierce, A.D. (1989) Acoustics: an introduction to its physical principles and applications. 1989 ed. Woodbury, N.Y.: Acoustical Society of America.

Szabo, T.L. (2004) Diagnostic ultrasound imaging: inside out. Boston, Mass: Elsevier Academic Press.

'Texas Instruments: Signal Processing Overview of Ultrasound Systems for Medical Imaging' (no date). Available at: <http://www.ti.com/lit/wp/sprab12/sprab12.pdf>.

'The Journal of the Acoustical Society of America' (no date). Available at:

<http://scitation.aip.org/content/asa/journal/jasa/browse>.

'Ultrasonics - Journal' (no date). Available at: <http://www.journals.elsevier.com/ultrasonics/>.

'Ultrasound in Medicine and Biology - Journal' (no date). Available at:
<http://www.journals.elsevier.com/ultrasound-in-medicine-and-biology/>.

Verweij, M.D. et al. (2014) 'Simulation of Ultrasound Fields', in Comprehensive Biomedical Physics. Elsevier, pp. 465–500. Available at:
<https://contentstore.cla.co.uk/secure/link?id=dd303ece-5636-e711-80c9-005056af4099>.

Wells, P.N.T. (2006) 'Ultrasound imaging', Physics in Medicine and Biology, 51(13), pp. R83–R98. Available at: <https://doi.org/10.1088/0031-9155/51/13/R06>.

'What is Medical Ultrasound?' (9AD). Available at:
<https://www.youtube.com/watch?v=KwsvDQhOpeU>.