

MPHY3900: Ultrasound in Medicine: Ben Cox

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1.

Diagnostic Ultrasound: Physics and Equipment. (Cambridge University Press, 2010).

2.

What is Medical Ultrasound? (9AD).

3.

How Ultrasound Works. (5AD).

4.

O'Brien, W. D. & Dunn, F. An early history of high-intensity focused ultrasound. *Physics Today* **68**, 40–45 (2015).

5.

Verweij, M. D., Treeby, B. E., van Dongen, K. W. A. & Demi, L. Simulation of Ultrasound Fields. in *Comprehensive Biomedical Physics* 465–500 (Elsevier, 2014).

6.

ter Haar, G. Acoustic surgery. *Physics Today* **54**, 29–34 (2001).

7.

Wells, P. N. T. Ultrasound imaging. *Physics in Medicine and Biology* **51**, R83–R98 (2006).

8.

LEIGHTON, T. What is ultrasound? *Progress in Biophysics and Molecular Biology* **93**, 3–83 (2007).

9.

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

10.

Obstetric ultrasound -- a comprehensive guide to ultrasound scans in pregnancy.
<http://www.ob-ultrasound.net/>.

11.

Halliwell, M. A tutorial on ultrasonic physics and imaging techniques. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine* **224**, 127–142 (2010).

12.

Texas Instruments: *Signal Processing Overview of Ultrasound Systems for Medical Imaging*.

13.

Kinsler, L. E. *Fundamentals of acoustics*. (Wiley, 1982).

14.

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

15.

Szabo, T. L. Diagnostic ultrasound imaging: inside out. vol. Academic Press series in biomedical engineering (Elsevier Academic Press, 2004).

16.

Ultrasound in Medicine and Biology - Journal.

17.

Ultrasonics - Journal.

18.

The Journal of the Acoustical Society of America.

19.

Cox, B. & Beard, P. Imaging techniques: Super-resolution ultrasound. Nature **527**, 451–452 (2015).