

MPHY3900: Ultrasound in Medicine: Ben Cox

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1

Hoskins PR, Martin K, Thrush A, editors. Diagnostic Ultrasound: Physics and Equipment. 2nd ed. Cambridge: : Cambridge University Press 2010.
<http://dx.doi.org/10.1017/CBO9780511750885>

2

What is Medical Ultrasound? 9AD.<https://www.youtube.com/watch?v=KwsuDQhOpeU>

3

How Ultrasound Works. 5AD.<https://www.youtube.com/watch?v=l1Bdp2tMFsY>

4

O'Brien WD, Dunn F. An early history of high-intensity focused ultrasound. Physics Today 2015; **68**:40–5. doi:10.1063/PT.3.2947

5

Verweij MD, Treeby BE, van Dongen KWA, et al. Simulation of Ultrasound Fields. In: Comprehensive Biomedical Physics. Elsevier 2014. 465–500.<https://contentstore.cla.co.uk/secure/link?id=dd303ece-5636-e711-80c9-005056af4099>

6

ter Haar G. Acoustic surgery. Physics Today 2001; **54**:29–34. doi:10.1063/1.1445545

7

Wells PNT. Ultrasound imaging. Physics in Medicine and Biology 2006; **51**:R83–98.
doi:10.1088/0031-9155/51/13/R06

8

LEIGHTON T. What is ultrasound? Progress in Biophysics and Molecular Biology 2007; **93**:3–83. doi:10.1016/j.pbiomolbio.2006.07.026

9

Cobbold RSC. Foundations of biomedical ultrasound. Oxford: : 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 2010; **224**:127–42. doi:10.1243/09544119JEIM656

12

Texas Instruments: Signal Processing Overview of Ultrasound Systems for Medical Imaging.
<http://www.ti.com/lit/wp/sprab12/sprab12.pdf>

13

Kinsler LE. Fundamentals of acoustics. 3rd ed. New York: : Wiley 1982.

14

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

15

Szabo TL. Diagnostic ultrasound imaging: inside out. Boston, Mass: : Elsevier Academic Press 2004.

16

Ultrasound in Medicine and Biology - Journal.
<http://www.journals.elsevier.com/ultrasound-in-medicine-and-biology/>

17

Ultrasonics - Journal. <http://www.journals.elsevier.com/ultrasonics/>

18

The Journal of the Acoustical Society of America.
<http://scitation.aip.org/content/asa/journal/jasa/browse>

19

Cox B, Beard P. Imaging techniques: Super-resolution ultrasound. Nature 2015;527:451-2.
doi:10.1038/527451a