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The Doppler Effect When ultrasound interacts with a moving object (i.e. red blood cells) the reflected frequency changes. If the cells are traveling towards the transducer the ultrasound wave is "squashed" $\downarrow \lambda$ and $\uparrow f$ giving a positive Doppler shift. If R's are traveling away the wave is "stretched" $\rightarrow \uparrow \lambda$ and $\downarrow f$

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There are 14 chapters which cover blood flow, the physics of ultrasound propagation, Doppler systems, ultrasonic transducers, signal detection and pre-processing, the Doppler power spectrum, Doppler signal processors, waveform analysis and pattern recognition, colour flow imaging systems and their signal processing requirements, volumetric blood flow measurements and miscellaneous Doppler techniques.

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Abstract. This book introduces a guide to the physical principles and instrumentation of duplex Doppler ultrasound and its applications in obstetrics, gynecology, neonatology, gastroenterology, and evaluation of peripheral vascular disease. The book provides information needed to perform Doppler

ultrasound examinations and interpret the results.

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A Doppler ultrasound is a non-invasive test that can be used to investigate movement and particularly evaluate blood flow in arteries and veins. It can also be used to provide information regarding the perfusion of blood flow in an organ or within an area of interest.

Physical principles of Doppler ultrasound | Radiology Key

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Abstract. A thorough understanding of the physics of ultrasound waves and the instrumentation will provide the user with a better understanding of the capabilities and limitations of ultrasound equipment. The ultrasound machine combines two technologies: image production (M-mode and 2-dimensional imaging) with Doppler assessment (continuous and pulse wave as well as color-flow mapping).

Physics and instrumentation of ultrasound

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