

# Doppler Ultrasound Physics Instrumentation And Signal

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The Doppler Effect When ultrasound interacts with a moving object (ie 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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In the next part of this series on Doppler ultrasound physics and instrumentation, the topic of signal aliasing and how it relates to Doppler ultrasound will be discussed References 1 Pellett AA, Kerut EK: The Doppler equation Echocar-diography 2004;21(2):197-198 2 Zagzebski JA: Essentials of Ultrasound Physics St

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