

## Discharge measurements using a broad-band acoustic Doppler current profiler



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### ***Reviews***

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***(Deondre Hackett)***

## DISCHARGE MEASUREMENTS USING A BROAD-BAND ACOUSTIC DOPPLER CURRENT PROFILER

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No binding. Book Condition: New. This item is printed on demand. Original publisher: Sacramento, Calif. : U. S. Dept. of the Interior, U. S. Geological Survey ; Denver, CO : Information Services distributor, 2001. OCLC Number: (OCoLC)49359833 Subject: Stream measurements. Excerpt: . . .  $V$  relative velocity between the sound source Wave rate: and the sound wave receiver ( the speed at one wave per second which the observer is walking toward the sound source ), in meters per second; and  $C$  the speed of sound, in meters per second. Note that: If the observer walks faster (  $V$  increases ), the Doppler shift (  $F$  ) increases D If the observer walks away from the sound (  $V$  is negative ), the Doppler shift (  $F$  ) is negative D If the frequency of the sound (  $F$  ) increases, the S Doppler shift (  $F$  ) increases D Boat speed: zero waves per second If the speed of sound (  $C$  ) increases, the Doppler shift (  $F$  ) decreases D Figure 1. 2. Stationary wave observer. Measuring Doppler Shifts Using Acoustic Backscatter An ADCP applies the Doppler principle by bouncing an ultrasonic sound pulse off small particles Wave rate: of sediment and other material ( collectively referred to one wave per second as backscatterers ) that are present, to some extent, even in optically clear water. A magnified view of the water column and the backscatterers illuminated by the sound pulse are shown in gure 1. 4. There are, of course, exceptions to every rule, and in tow tanks and some natural rivers, backscatterer density can be too low for the proper operation of an ADCP. The ADCP transmits an acoustic ping, or pulse into the water column and then listens for the return echo from the...



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