



The British and Foreign Medico-Chirurgical Review or Quarterly Journal of Practical Medicine and Surgery Volume 33

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 42 pages. Original publisher: Washington, D. C. : NASA ; Springfield, Va. : For sale by the National Technical Information Service, 1990. OCLC Number: (OCoLC)25288123 Subject: Nondestructive testing. Excerpt: . . . PRECISIONACOUSTICIMAGING Ultrasonic imaging can be done by several techniques. The most common is that used by commercially available ultrasonic immersion sltitude C-scanning systems. An ultrasonic wave of known amplitude A_0 is transmitted through a sample as shown in Fig. 7. The final amp A_f or C-scan image is a representation of relative attenuation or energy lost by the ultrasonic wave during its trip from the transmitter to receiver. Unfortunately, C-scan images are not representations of the energy lost by the ultrasonic wave solely because of the internal structure of the sample. The ultrasonic reflection coefficients at the water-to-sample interfaces, which are generally assumed to be constant, are actually large and varying. These reflection coefficients must be included in the analysis to determine the actual energy loss, or attenuation, due to the inner structure of the sample, and they must be used in determining the accuracy of the acoustic image as well as the accuracy of the imaging technique. For this..



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