

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



Filesize: 2.37 MB

## ***Reviews***

*This ebook is very gripping and fascinating. Sure, it is engage in, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.*

*(Ms. Ora Buckridge)*

## THE BRITISH AND FOREIGN MEDICO-CHIRURGICAL REVIEW OR QUARTERLY JOURNAL OF PRACTICAL MEDICINE AND SURGERY VOLUME 33



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: . . . PRECISION ACOUSTIC IMAGING Ultrasonic imaging can be done by several techniques. The most common is that used by commercially available ultrasonic immersion slit-scanning systems. An ultrasonic wave of known amplitude  $A_0$  is transmitted through a sample as shown in Fig. 7. The final amplitude  $A_f$  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 reason, the equations for determining the uncertainty in the measurement of ultrasonic attenuation are highlighted in this work. First consider the immersion scanning method. To obtain the reflection coefficient at the back surface, a modified two-transducer arrangement must be used ( Fig. 8 ), where the transducers are both transmitters and receivers. The uncertainty  $\sigma$  in the attenuation measurement for this immersion arrangement is given by:  $2\sigma = \frac{1}{S} \sqrt{1 + 2 \frac{R_f}{R_b} + \frac{1}{S^2}}$  where  $S$  is the signal-to-noise ratio of the input ultrasonic pulse,  $\alpha$  is the measured attenuation, and  $R_f$  and  $R_b$  are...



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



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

## You May Also Like



**Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can usually...

[Read ePub »](#)



**Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1624-1625)**

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now...

[Read ePub »](#)



**Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625)**

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now you...

[Read ePub »](#)



**The Day Lion Learned to Not Be a Bully: Aka the Lion and the Mouse**

Createspace, United States, 2013. Paperback. Book Condition: New. Large Print. 279 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The beloved Classic tale The Lion and the Mouse gets the...

[Read ePub »](#)



**Bully, the Bullied, and the Not-So Innocent Bystander: From Preschool to High School and Beyond: Breaking the Cycle of Violence and Creating More Deeply Caring Communities**

HarperCollins Publishers Inc, United States, 2016. Paperback. Book Condition: New. Reprint. 203 x 135 mm. Language: English . Brand New Book. An international bestseller, Barbara Coloroso's groundbreaking and trusted guide on bullying-including cyberbullying-arms parents...

[Read ePub »](#)