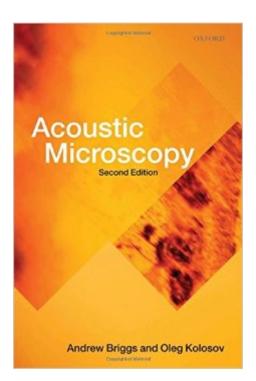
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Acoustic Microscopy (Monographs On The Physics And Chemistry Of Materials)





Synopsis

Acoustic microscopy enables you to image and measure the elastic properties of materials with the resolution of a good microscope. By using frequencies in microwave regime, it is possible to make the acoustic wavelength comparable with the wavelength of light, and hence to achieve a resolution comparable with an optical microscope. Solids can support both longitudinal and transverse acoustic waves. At surfaces a unique combination of the two known as Raleigh waves can propagate, and in many circumstances these dominate the contrast in acoustic microscopy. Following the invention of scanning probe microscopes, it is now possible to use an atomic force microscope to detect the acoustic vibration of a surface with resolution in the nanometre range, thus beating the diffraction limit by operating in the extreme near-field. This 2nd edition of Acoustic Microscopy has a major new chapter on the technique and applications of acoustically excited probe microscopy.

Book Information

Series: Monographs on the Physics and Chemistry of Materials (Book 67) Hardcover: 384 pages Publisher: Oxford University Press; 2 edition (November 16, 2009) Language: English ISBN-10: 0199232733 ISBN-13: 978-0199232734 Product Dimensions: 9.3 x 0.9 x 6 inches Shipping Weight: 1.7 pounds (View shipping rates and policies) Average Customer Review: Be the first to review this item Best Sellers Rank: #2,129,961 in Books (See Top 100 in Books) #69 inÅ Books > Science & Math > Experiments, Instruments & Measurement > Electron Microscopes & Microscopy #149 inÅ Books > Science & Math > Experiments, Instruments & Measurement > Microscopes & Microsocopy #1065 inÅ Books > Science & Math > Physics > Acoustics & Sound

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