

properties. The last chapter explains how acoustic microscopy can probe the microstructure and viscoelastic properties of biological tissue. Melanoma cells, kidney tissue, human skin and eye sclera, mouse liver, rat myocardium, bone in the vicinity of an implant, and carious dental tissue have all yielded the secrets of their mechanical structure to acoustic microscopy.

Exciting and significant new developments in acoustic microscopy have emerged in the past decade or so. One is the growing use of focused imaging with ultrasonic waves at frequencies for which the radiation penetrates significantly into opaque materials. Rather than pushing the limits of microscopic resolution, that technique enables nondestructive inspection of small components such as those in electronic equipment.

Another new development combines ultrasonic excitation with atomic force microscopy to probe a material's elastic properties at nanoscale resolution. The approach can be applied to such problems as the characterization of cracking and debonding in nanocomposite packaging materials—glass layers on polymer substrates—that inhibit the penetration of oxygen and water. Maev's book mentions that development, albeit only in a foreword written by acoustic-microscopy pioneer Calvin Quate. I consider it significant enough that in the upcoming second edition of my own book, *Acoustic Microscopy* (Oxford University Press, first published in 1992), I have included an entire chapter written with Oleg Kolosov describing acoustically excited probe microscopy and its applications.

Maev's *Acoustic Microscopy* will be a handy reference for materials scientists, electrical engineers, life scientists, and graduate students in any discipline that calls for microscopic characterization of elastic structure. The technique continues to offer the capability to image and measure elastic properties on the microscopic scale, and I have every hope that Maev's text will help to stimulate further advances in its use.

Andrew Briggs
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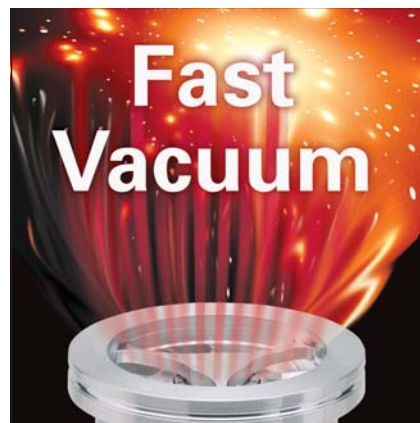
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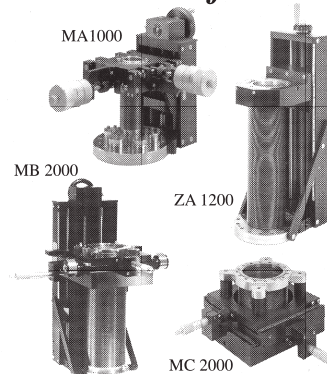
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