

Ultrasound: Its Chemical, Physical, and Biological Effects



Ten of the worlds leading researchers in the field offer an in-depth review of the full range of ultrasonic phenomena. Major topics include acoustic cavitation and other nonlinear phenomena, both homogeneous and heterogeneous sonochemistry, sonoluminescence, biological effects both in vitro and in vivo, and industrial applications of ultrasound. This book is intended for chemists of all kinds, for material scientists and engineers, for acoustical physicists, and for biologists and medical researchers who make use of ultrasound in their own work. Ultrasound is used routinely for cleaning literally anything, for welding of plastics and metals, for emulsification of cosmetics and magnetic coatings, for medical diagnostics, and for various medical treatments.

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