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Ultrasonics : data, equations, and their practical uses

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elements to the design of vibrating bars, horns, plates, rings, large horns, and blades.

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Ultrasonics; data, equations, and their practical uses. Ed. by Dale Ensminger and Foster B. Stulen. CRC Press 2009 496 pages \$139.95 Hardcover TA367 Ensminger and Stulen (both ultrasonics and acoustics with Battelle Memorial Institute, Ohio) present data and functions for understanding and using ultrasonic energy.

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Ultrasonic cleaning is a process that uses ultrasound (usually from 20–40 kHz) to agitate a fluid. The ultrasound can be used with just water, but use of a solvent appropriate for the object to be cleaned and the type of soiling present enhances the effect.

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Ultrasonic cleaning - Wikipedia

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The working of the ultrasonic horn is considered to be of high cycle frequency by taking each weld (20,000 cycles/second) as a single event. The ultrasonic horn performs 2880 welds in a day at the rate of 6 welds per minute. If the unit works for 8 h/day, the horn performs 10 6 welds per year assuming that the horn is operated throughout 365 ...

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