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EVOLUTION OF PIEZOELECTRIC TRANSDUCERS TO FULL SCALE NON-CONTACT ULTRASONIC ANALYSIS MODE M. C. Bhardwaj, Ultrason Group., Boalsburg, PA USA Abstract: While non-contact - air/gas coupled - uses of sound waves are buried in the antiquities of our civilization, in modern times, presumably one of the first applications is related to

Mid to high frequency transducers designed for conventional direct contact non-destructive testing applications. W-series built with lead metaniobate piezoelectric material for high bandwidth and K-series built with high performance PZT for ...

Mid to high frequency transducers designed for conventional direct contact non-destructive testing applications. W-series built with lead metaniobate piezoelectric material for high bandwidth and K-series built with high performance PZT for high sensitivity.

HIGH ACCURACY MEASUREMENT OF PREPREG LEVEL OF IMPREGNATION USING NON-CONTACT ULTRASOUND Anuj Bhardwaj, Kashyap Patel, Mahesh C. Bhardwaj<sup>1</sup> Konstantine A. Fetfatsidis<sup>2</sup> <sup>1</sup>The Ultrason Group, 2380 Commercial Blvd, State College, PA 16801 <sup>2</sup>Aurora Flight Sciences, 4 Cambridge Center, Suite 11, Cambridge MA 02142 ABSTRACT

The Ultrason Group (formerly known as Ultrason Laboratories) is a company that develops ultrasound technology solutions. It offers low-frequency, non-contact, dry-coupled, and very-short-pulse conventional transducers, bench-top ultrasonic analysis systems, and production line quality analysis systems.

Line focused transducers for shaped beam profile at focal length, providing specific spatial characteristics. Transducer enclosure identical to square non-contact series of corresponding active dimensions.

Email: [info@ultrangroup](mailto:info@ultrangroup) Ultrason's non-contact ultrasound technology is shown to detect variations in each of the above conditions. Focused transducers demonstrate the capability to measure localized variations in high resolution. High frequency analysis depicts minute property variations. &#182; &#182; &#182; Ultrason has performed extensive analysis on

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