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Angle-Resolved Study of Lamb Wave Generation and Experimental Investigation of Wave Attenuation by Laser Vibrometry

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Since the use of Lamb waves was introduced to monitor large plate-like structures, several kinds of transducers emerged and are suggested in various applications. Due to their differing acting principles, sizes and shapes it is difficult to determine the most powerful out of all of them. Furthermore, the wave propagation characteristic of the structure under surveillance plays an important role for a successful design of a monitoring concept.

The work presented here will demonstrate how measurements by laser vibrometry can be used to increase the knowledge about the angular transducer-structure interaction as well as the frequency dependent attenuation of the excited waves. As a result one will be able to select the most fitting transducer for the desired application.

Ключевые слова:

Содержание.

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