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## Identification of Natural Frequencies of a Cantilever Beam by Stimulated Brillouin Scattering

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In this work, we propose the use of stimulated Brillouin scattering in optical fibers, in order to detect the vibrations of a cantilever beam. In particular, the first two natural frequencies of cantilever were successfully retrieved by our optical fiber sensor. Comparison with the numerical results obtained by a finite-elements method, permitted to demonstrates the accuracy of the proposed technique.

**Ключевые слова:**

**Содержание.**

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