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Fast and Distributed Brillouin Sensing for Dynamic SHM

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We report a fast and distributed Brillouin measurement technique suitable for dynamic SHM applications. Having the capabilities of sensing strains at high sampling rates (~a few KHz) over hundreds of meters of optical fiber, the technique could prove useful in a range of SHM scenarios. An application of the technique to the measurement of flexural waves in a composite strip is demonstrated.

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Ключевые слова:

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