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Identification of Dynamic Parameters of Stay Cables Using Commercial Camcorder

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To explore a more convenient and economical measurement approach for structural health monitoring, the application of digital photometry is proposed in this study. The combined techniques of digital image processing and time series analysis are developed to identify the dynamic parameters of stay cables from their ambient vibration signals recorded by commercial camcorders placed on bridge deck. From the identified results, it is evidently verified that the dynamic parameters identified from the digital images are comparable to those from the velocimeter signals.

Ключевые слова:

Содержание.

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