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Damage detection in a reinforced concrete using wavelet transforms

Juliana Cardoso Santos¹, Ramon Saleno Yure Rubim Costa Silva¹ and Luciano Mendes Bezerra²¹Paulista University, Brazil²University of Brasilia, Brazil

There are several techniques of non-destructive damage detection in structures. However, these techniques are expensive and require an accurate examination of large extension of the structure under analysis. The numerical techniques can be helpful for non-destructive examination of structures. Such techniques may show a possible location of damage and thus decrease substantially the area to be examined and consequently, may turn the non-destructive tests less expensive. This paper presents a damage detection process using Finite Element Method and Wavelet Transform applied in a reinforced bridge.

julianasaaantos@gmail.com