



BRIDGE STRUCTURE STATE MONITORING BY NDT METHODS

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Bridges are very specific kind of structures and their diagnostics is also very specific. Each bridge structure is unique but all these structures have one identical character. If you want to diagnose whole bridge structure it represents to inspect big area. It is inconceivable to inspect whole bridge by the most common NDT inspections like magnetic method, RTG etc. Very powerfull tool for the bridge structures diagnostics is acoustic emission method. You can inspect whole construction of any kind of shape quickly and in all volume. Acoustic emission method is also very convenient for continuous monitoring. In combination with strain-gauge measurement and vibration measurement you have perfect information about state of the bridge structure.

Some experimental results are presented from measurement on steel bridge. On the base of measurement the residual life time evaluation of bridge is made.