Bridge Monitoring – Detecting Loss of Pretension

Dipl.-Ing. Ulf KOHLBREI
TÜV Rheinland LGA Bautechnik GmbH
Bauwerksdiagnose
Am Grauen Stein, 51105 Köln (Cologne)
E-Mail: ulf.kohlbrei@de.tuv.com

Abstract

Since 2006 the pre-stressed concrete bridge shown in the contribution has been supervised by a monitoring system. Despite predamages at the presstressed reinforcement, the important infrastructure building will continue to operate safely. A highly sensitive measuring technology detects even miniature changes in the prestressing conditions and gives alarm at an early stage. The building operator is able to intervene if necessary. On the poster, information is given about the measuring configuration, the measuring results and their interpretation and evaluation.

License: http://creativecommons.org/licenses/by/3.0/