IN-LB Inch-Pound Units

Statistical Techniques for Assessment of Existing Concrete Structures—Report

Reported by ACI Innovation Task Group 11

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This report demonstrates how statistical techniques can be used in the assessment of concrete structures to evaluate their condition and reliability and to assess the relative merits of possible repair options. A Reliability Toolkit provides licensed design professionals with a summary of some statistical methods that are useful for structural assessment. The report also gives two detailed examples of assessments for structural concrete repair.

Keywords: confidence level; data analysis; durability; material properties; mean load method; rehabilitation; reliability; sample size; testing.

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