

Statistical Techniques for Assessment of Existing Concrete Structures—Report

Reported by ACI Innovation Task Group 11

ACI PRG-ITG-11-24



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Statistical Techniques for Assessment of Existing Concrete Structures—Report

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American Concrete Institute
5880 Country Club Drive
Farmington Hills, MI 48331
Phone: +1.248.848.3700
Fax: +1.248.848.3701

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Report prepared by Innovation Task Group 11

Peter Barlow, Chair

Nicholas R. Triandafilou*, Secretary

Ali Abu-Yosef
F. Michael Bartlett*
Ziad Elaghoury

Jeremiah D. Fasl
Kip Gatto
Timothy R. W. Gillespie

Lawrence F. Kahn*
Ming Liu
John S. Lund

Diego Romero
Kyle D. Stanish*
Jeffrey F. West*

*Authors of this report.

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.

CONTENTS

CHAPTER 1—INTRODUCTION AND SCOPE, p. 2

- 1.1—Introduction, p. 2
- 1.2—Scope, p. 2

CHAPTER 2—NOTATION, p. 2

CHAPTER 3—ASSESSMENT, p. 4

- 3.1—Planning, p. 4
- 3.2—Objective of testing program, p. 4
- 3.3—Properties and testing, p. 4

CHAPTER 4—BACKGROUND ON STATISTICAL TECHNIQUES, p. 5

- 4.1—Defining the population and determining sample sizes, p. 5
- 4.2—Characterizing data, p. 7
- 4.3—Comparing and combining datasets, p. 9
- 4.4—Bounding sample statistics using confidence intervals, p. 10
- 4.5—Determining fractile values, p. 13
- 4.6—Characterizing data representing extreme transient loads, p. 13

CHAPTER 5—RELIABILITY-BASED DURABILITY ASSESSMENT EXAMPLE, p. 14

- 5.1—Problem statement, p. 14

ACI PRC-ITG-11-24 was published August 2024.

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