

ISO/TR 18961:2025-01 (E)

Buildings and civil engineering works - Seismic resilience assessment and strategies - Compilation of relevant information

Contents

Page

- Foreword..... iv
- Introduction..... v
- 1 Scope..... 1
- 2 Normative references..... 1
- 3 Terms and definitions..... 1
- 4 Abbreviated terms..... 1
- 5 Concept of seismic resilience..... 2
- 6 Assessment..... 2
 - 6.1 General..... 2
 - 6.2 Determining seismic response..... 4
 - 6.2.1 Earthquake hazard..... 4
 - 6.2.2 Building performance model..... 5
 - 6.2.3 Building seismic damage state..... 5
 - 6.3 Assessment using resilience indicators..... 6
 - 6.3.1 Earthquake-induced casualties..... 6
 - 6.3.2 Earthquake-induced downtime..... 7
 - 6.3.3 Earthquake-induced economic losses..... 7
 - 6.3.4 Seismic resilience level..... 8
 - 6.4 Seismic resilience-related datasets..... 8
- 7 Strategies..... 9
 - 7.1 General..... 9
 - 7.2 Design of built assets..... 9
 - 7.2.1 Structural design for newly built assets..... 9
 - 7.2.2 Structural retrofitting for existing built assets..... 10
 - 7.2.3 Nonstructural design for newly built assets..... 10
 - 7.2.4 Nonstructural retrofitting for existing built assets..... 11
 - 7.3 Design for external earthquake-induced hazards..... 11
- Bibliography..... 12