

# Earthquake Engineering for Concrete Dams: Design, Performance, and Research Needs



The hazard posed by large dams has long been known. Although no concrete dam has failed as a result of earthquake activity, there have been instances of significant damage. Concerns about the seismic safety of concrete dams have been growing recently because the population at risk in locations downstream of major dams continues to expand and because the seismic design concepts in use at the time most existing dams were built were inadequate. In this book, the committee evaluates current knowledge about the earthquake performance of concrete dams, including procedures for investigating the seismic safety of such structures. Earthquake Engineering for Concrete Dams specifically informs researchers about state-of-the-art earthquake analysis of concrete dams and identifies subject areas where additional knowledge is needed.

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**SIGN, PERFORMANCE AND RESEARCH NEEDS**, National over 200 **seismic performance and assessment criteria for concrete dams** Earthquake engineering for concrete dams : design, performance, and Urgent research needs that have been identified in the various subject areas are listed

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