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Observed Performance Of Dams During OBSERVED PERFORMANCE OFDAMS

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DURING EARTHQUAKES (Volume II) In July 1992, the U.S. Committee on Large Dams published a report titled "Observed Performance of Dams During Earthquakes." Since 1992, several earthquakes, including three major events, have affected an appreciable number of existing dams.

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Observed Performance of Dams During Earthquakes

In July, 1992, the U. S. Society on Dams (formerly the U.S. Committee on Large Dams) published a report title Observed Performance of Dams During Earthquakes.

Observed Performance of Dams

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During Earthquakes

Observed Performance of Dams During
Earthquakes Volume III

**(PDF) Observed Performance of
Dams During Earthquakes ...**

Abstract In October 2000, the U.S.
Society on Dams published Volume II of
Observed Performance of Dams During

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Earthquakes.

(PDF) Observed Performance of Dams During Earthquakes

It is concluded that (1)Hydraulic fill dams on stable foundations can safely withstand accelerations up to about 0.2g from Magnitude 6.5 earthquakes; (2)virtually any well-built dam can

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withstand moderately strong shaking up to about 0.2g or more with no detrimental effects; (3)dams built of clay soils seem to be able to withstand extremely strong shaking from large magnitude earthquakes without significant damage; (4)dams may fail up to 24 hrs after being shaken by an earthquake probably ...

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Performance of Earth Dams during Earthquakes

OBSERVED PERFORMANCE OF DAMS
DURING EARTHQUAKES. (Volume II) In
July 1992, the U.S. Committee on Large
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earthquakes, including three major events, have affected an appreciable number of existing dams.

www.usddams.org

An excellent report on this performance of the dam during the earthquake has been presented by the Mexican Comision Federal de Electricidad (1980).

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Significant lessons to be learned from the observed performance include:
Analyses of the response of the dam to the base excitation will provide the first determination of the dynamic properties of a rockfill under dynamic loading conditions.

12. Lessons from the performance

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Performance of Embankment Dams in the 1906 San Francisco (California) Earthquake At the time of the 1906 San Francisco earthquake, which resulted from rupture along some 270 miles of the San Andreas fault, a significant number of earth dams had already been constructed in California and were

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THE PERFORMANCE OF EARTH DAMS DURING EARTHQUAKES

PERFORMANCE OF EARTH DAMS DURING
EARTHQUAKES. ... California (1971). An
attempt is made to determine
relationships between embankment
characteristics and observed

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performance. It is concluded that (1) Hydraulic fill dams on stable foundations can safely withstand accelerations up to about 0.2g from Magnitude 6.5 earthquakes; (2) virtually any ...

PERFORMANCE OF EARTH DAMS DURING EARTHQUAKES

Observed seismic behavior of three

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Chilean large dams R. Verdugo
Department of Civil Engineering,
University of Chile, Chile G. Peters CMG
Ingenieros, Chile ABSTRACT: Seismic
shaking of large dams constructed with
coarse material, such as rockfill, cobbles
and gravels, is normally associated with
settlements that, depending on both
shaking

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Observed seismic behavior of three Chilean large dams

Observed Performance of Dams During Earthquakes The USDD Committee on Earthquakes has published three reports on this topic since 1992. Volume I includes general observations on the performance of embankment and

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concrete dams, along with 11 case histories and a table with a comprehensive listing of dams affected by earthquakes.

White Papers | USSD | United States Society on Dams

Nonlinear deformation analyses (NDAs) are used for evaluating the potential

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effects of liquefaction on the seismic performance of embankment dams. NDAs provide insights on potential failure modes and serve as a basis for generating fragility curves for risk analyses.

Nonlinear Deformation Analyses of Liquefaction Effects on ...

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Current Situation of JCOLD Activity about Seismic Data - Relevance of New Bulletin ... DISTANCE AND PERFORMANCE OF DAMS 4. COMPARISON OF PGA AT DAM FOUNDATIONS, SOILS AND UNDERGROUND ... "Observed Performance of Dams during Earthquakes Vol.II"(2000).

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Current Situation of JCOLD Activity about Seismic Data

briefed us and escorted us to eight dams, including the damaged Shih Kang concrete dam. It was a prime opportunity to assess the actual situation at the substation, place this particular dam failure into perspective, and to observe the successful

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performance of several other dams.

A review of the performance of two large sub-stations and ...

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the performance of dams during the wenchuan 5-12 earthquake and lessons learned from the event Article in Journal

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THE PERFORMANCE OF DAMS DURING THE WENCHUAN 5-12 ...

performance of dams subjected to
extreme seismic events brings into
question how well these analyses can

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actually predict behavior and the validity and necessity of any seismic modifications.

Seismic Analysis of Concrete Dams - Wild Apricot

Performance of Earth Dams During the
Lorna Prieta Earthquake _eslie F. Harder,
Jr. 3upervising Engineer, California

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Department of Water Resources

'SYNOPSIS: The October 17, 1989 Lorna Prieta Earthquake shook a large number of earth and rockfill dams. There were actually more than 100 dams within 50 miles of the fault rupture associated with

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Technology Scholars' Mine**

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while generally excellent performance was observed in 25 rolled earth fill dams at shaking levels between 0.2 and 0.4g (Seed et al., 1978). The latter event, together with the performance of hydraulic fill dams in Russia (Ambraseys, 1960), also showed that even dams constructed with hydraulically deposited sand shells can

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