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World War EP1 |

Timeline

"American

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~~supremacists~~

~~overthrew a~~

~~government~~ STUNG

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JACKET!

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explained]Effects
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Ground

Effects of near-fault
and far-fault ground
motions on
nonlinear dynamic
response and
seismic damage of
concrete gravity
dams 1.

Introduction. Dams
are important
lifeline engineering

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which have
contributed to the
development of
civilization for a... 2.
Characteristics of
near-fault ground
motions. It ...

Effects of near-fault
and far-fault ground
motions on ...

Ground motions
close to a fault can
be significantly

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influenced by
directivity effects.
When the rupture
and slip direction
relative to a site
coincide, and a
significant portion
of the fault ruptures
towards the site,
the ground motion
can exhibit the
effects of forward-
directivity.

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Effects of near-fault ground motions and equivalent pulses ...

Near-fault ground motion includes the characteristics of forward directivity and fling step. In addition to ground motion, the aspect ratio of the pier, as a representative factor of a structural system,

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influences the seismic behavior of bridges. Thus, this study assessed the seismic response of bridges with various aspect ratios under the near-fault and far-fault ground motion conditions.

Nonlinear static analysis was first performed to

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Special Issue

"Effects of Near-
Fault Ground
Motions on ...

The latter is
described with
idealized pulses and
near-fault seismic
records strongly
influenced by

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fault-directivity or fling-step effects (from Northridge, Kobe, Kocaeli, Chi-Chi, Aegion). In addition to the well known dependence of the resulting block slippage on variables such as the peak base velocity, the peak base acceleration, and the critical

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Fault Ground
Acceleration ratio,
our study has
consistently and
repeatedly revealed
a profound
sensitivity of both
maximum and
residual slippage:
(1) on ...

Effects of Near-
Fault Ground
Shaking on Sliding
Systems ...

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Near-fault ground motions have caused much damage in the vicinity of seismic sources during recent earthquakes. These ground motions come in large varieties and impose high demands on structures compared to

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“ordinary” ground motions. Recordings suggest that near-fault ground motions are characterized by a large high-energy pulse.

Effects of Near-Fault Ground Motions on Frame Structures ...
Conclusions 1) The

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long-period pulse has a significant effect on the tunnel, which makes the near-fault ground motions more damaging... 2) For a given pulse period, the pulse with larger amplitude brings more energy and leads to higher strains in rock and... 3) The period

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Fault Ground
of the pulse can...

Motions On
Effect of near-fault
Frame
ground motions
with long-period ...

Effects of Near-
Fault Ground
Motion and Fault-
Rupture on the
Seismic Response
of Reinforced
Concrete Bridges

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Motion and Fault-
Rupture on ...
Closure to “ Effect
of Near-Fault
Vertical Ground
Motions on Seismic
Response of
Highway
Overcrossings ” by
Sashi K. Kunnath,
Emrah Erduran, Y.
H. Chai, and Mark
Yashinsky

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Discussion of

“ Effect of Near-
Fault Vertical

Frame Motions on
Seismic Response
of Highway

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Emrah Erduran, Y.
H. Chai, and Mark
Yashinsky

Effect of Near-Fault
Vertical Ground

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Motions On

Abstract. Near-fault ground motions exhibiting forward directivity effects are critical for seismic design because they impose very large seismic demands on buildings due to their large-amplitude pulselike

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Frame
Structures

waveforms. The current challenge in seismic design codes is to recommend simple (easy-to-apply) yet proper rules to explain the near-fault forward directivity (NFFD) phenomenon for seismic demands.

Implementation of

Download Free Effects Of Near Near-Fault Forward Directivity Effects

On Topography:
One of the main effects of the faults on topography is that they very often result in the development of distinct types of steep slopes which are aptly called fault scarps. Three

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types of fault
associated scarps
are often
recognized- fault
scarps, fault-line
scarps and
composite-fault
scarps.

Faults: Meaning,
Causes and Effects
| Rocks | Geology
step effect is the
outcome of the

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tectonic permanent
deformation of the
earth in the

Frame
proximity of the

Structures
fault. It manifests

itself in the record

with a static

residual

displacement,

oriented parallel to

the fault strike with

strike-slip

earthquakes and

perpendicular to the

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Effects of Near-
Fault Ground
Shaking on Sliding
Systems
of severe, long-
period pulses in
near-fault ground
motions may be a

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fault ground
causing damages.
Thus, it is
necessary to
investigate the
effect of the long-
period pulse on
tunnels in order to
interpret the
observed damages.
At present, there
are two approaches
to account for near-
fault ground

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1558. Effect of near-
fault ground
motions with long-
period ...

Characteristics of
Near-Fault Ground
Motions. • F d Di ti
it Eff tForward
Directivity Effect: –
Fault rupture
propagates toward
a site with

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V_r (and slip vector points toward the site). – Appears in the form of two-sided velocity pulse. – Observed in the strike-normal direction for strike-slip and dip-slip faults.

NEAR-FAULT
GROUND

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To investigate the effects of earthquake characteristics, two categories of strong ground motions are assumed through IDA method, i.e. near and far-field sets. To study the extent of

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Fault Ground
Motions On
Frame
Structures

modification for
various heights of
structures, 4 – 6
and 10 stories
moment-resisting
concrete frames are
considered as case
studies.

Effects of Near-
fault Strong Ground
Motions on ...

The analyses
results revealed

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that the seismic performance of the CBFs without FVDs is very poor and sensitive to the velocity pulse period and the intensity of the NF ground motion due to brace buckling effects. Installing FVDs into the CBFs significantly improved their

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Effect of near fault
ground motion and
damper ...
near-fault
phenomenon
requires
consideration in the
design process for
structures that are

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located in the near-fault region, which is usually assumed to extend about 10 to 15 km from the seismic source (1996 SEAOC Blue Book). Aside from directivity effects, near-fault ground motions are more severe than “ordinary”

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EFFECTS OF
NEAR-FAULT
GROUND MOTIONS
ON FRAME
STRUCTURES

Effects of Near
Fault and Far Fault
Ground Motions on
Nonlinear Dynamic
Response and
Seismic
Improvement of
Bridges. Mohammad
Hajali, Abdolrahim

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Jalali, Ahmad
Maleki. Abstract. In
this study, the
dynamic response
of bridges to
earthquakes near
and far from the
fault has been
investigated. With
respect to available
data and showing
the effects ...

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Page 39/41

Download Free Effects Of Near Fault and Far Fault Ground Motions on

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Structures

Ground motions with velocity pulses caused by near-fault directivity have received a great deal of attention from engineers and seismologists because of their potential to cause

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