Effects Of Near Fault Ground Motions On Frame Structures

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The Complete Story of Destiny! From origins to Shadowkeep [Timeline and Lore explained]*Effects Of Near Fault 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 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 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.

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, 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 evaluate the seismic capacity of the pier.

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

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

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 “ 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 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 of the pulse can ...

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

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

Effects of Near-Fault Ground 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 Discussion of “ 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

Effect of Near-Fault Vertical Ground Motions on Seismic ...

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 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 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 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 tectonic permanent deformation of the earth in the proximity of the 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 fault with purely dip-slip normal or thrust earthquakes Abrahamson 2001 .

Effects of Near-Fault Ground Shaking on Sliding Systems

of severe, long-period pulses in near-fault ground motions may be a key factor in

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 motions.

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 Vr ≈ β (and slip vector points toward the site). – Appears in the form of two-sided velocity pulse. – Observed in the strike-normal

directionfor strike-slip and dip-slip faults.

NEAR-FAULT GROUND MOTIONS:FAULT GROUND MOTIONS ...

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 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 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 seismic performance by maintaining their elastic behaviour.

Effect of near - fault ground motion and damper ...

near-fault phenomenon requires consideration in the design process for structures that are 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 ”

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 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 ...

Effects of Near Fault and Far Fault Ground Motions on ...

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 severe damage to structures.

Effects of Near-fault Ground Motions on Frame Structures A Probabilistic Framework to Include the Effects of Near-fault Directivity in Seismic Hazard Assessment Effects of near-fault ground motions on frame structures Near-fault Ground Motion

Estimates Including Directivity Effects from Large Strike-slip Earthquakes in the San Francisco Bay Area Near Fault Ground Motion Effects on Inelastic SDOF Response Effect of Near-fault Ground Motion Characteristics on Bridges with Footing Uplift Near-fault Ground Motion Estimates Including Directivity Effects from Large

Strike-slip Earthquakes in the San Francisco Bay Area Characterization and Simulation of Near-fault Ground Strains and Rotations, and Effects on Engineering Structures Stochastic Modeling and Simulation of Near-Fault Ground Motions for Performance-Based Earthquake Engineering Effects of Near-fault Translational and Torsional

Ground Motions on Dynamic Response of Single-story Buildings Dynamic Modeling of Pulse-like Earthquake and Ground Motions Critical Earthquake Response of Elastic-Plastic Structures Under Near-Fault or Long-Duration Ground Motions: Closed-Form Approach via Impulse Input Liquefaction-Induced Building Performance

and Near-Fault Ground Motions Time Domain Probabilistic Seismic Demand Analysis of Self Centering Bridges Under Near Fault Ground Motions Recent Advances in Earthquake Engineering in Europe Near Fault (near Field) Ground Motion Effects on Reinforced Concrete Bridge Columns Effects of Soil Conditions

and Tectonic Region on the Pulse Period of Forward-directivity Ground Motions in the Near-fault Region Dynamic Response of Bridges to Near-fault, Forward Directivity Ground Motions Seismic Performance Analysis of Concrete Gravity Dams Maintenance, Safety, Risk, Management and Life-Cycle Performance of Bridges