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Seismic Behaviour

The purpose of this paper was to systematically investigate the influence of acid rain environments on the seismic behaviour of a reinforced concrete (RC) column. Six RC column specimens with shear span ratios of 2.84 were tested under low cyclic reversed loads after being subjected to accelerated corrosion tests in an artificial climate.

Experimental Investigation on Seismic Behaviours of ...

As it is seen, most investigations have focused on ductility and energy dissipation of HSC columns, and some efforts have been made to propose novel approaches to improve its seismic behavior. Despite these investigations, a review of the literature indicates that after ACI318-14 was published,

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there have been rare experimental attempts to investigate the various modes of failure and damage states to capture the corresponding performance levels for the reinforced HSC columns of Special ...

Experimental investigation on the seismic behavior and ...

This paper presents an experimental study on seismic behavior of ultra-high performance steel fiber reinforced concrete (UHPSFRC) columns. Based on a series of cyclic loading tests on 14 UHPSFRC specimens subjected to combined static axial loading and cyclic lateral loading, the investigation and analysis have been carried out on crack status, failure modes, hysteretic loops, skeleton curves, strength and stiffness degradation, energy dissipation capacity and ductility of UHPSFRC columns.

Experimental investigation of seismic behavior of ultra ...

The stone blocks in the broad gable were connected by metal clamps during restoration at the beginning of the 20th century. In order to study the seismic performance of the strengthened stone masonry structures, an experimental investigation of seismic behaviour of a physical model of the Protiron was performed on the shaking table.

Experimental investigation of seismic behaviour of the ...

This paper investigates the seismic behaviour of moment-resisting timber frames with beam-column joints fastened with expanded tubes and reinforced with Densified Veneer Wood. Laboratory experiments are carried out on single joints to investigate the cyclic behaviour and, more specifically, the impairment of strength, the ductility ratio and the equivalent viscous damping ratio.

Experimental-numerical investigation on the seismic ...

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The current paper presents and discusses an experimental investigation carried out for characterizing the seismic behaviour of CFS strap-braced stud walls. The experimental campaign is principally focused to study the global response of CFS strap-braced walls designed according to an elastic approach.

Experimental investigation of seismic behaviour of low ...

Psycharis I.N., Mouzakis H.P., Carydis P.G. (2012)

Experimental Investigation of the Seismic Behaviour of Precast Structures with Pinned Beam-to-Column

Connections. In: Fardis M., Rakicevic Z. (eds) Role of Seismic Testing Facilities in Performance-Based Earthquake Engineering. Geotechnical, Geological, and Earthquake Engineering, vol 22.

Experimental Investigation of the Seismic Behaviour of ...

Abstract and Figures Design recommendations for reinforced concrete beam-column connections are based on limited experimental studies on the seismic behavior of eccentric connections. To supplement...

(PDF) Experimental investigation on seismic behavior of ...

In this study, the seismic behavior of corroded RC columns was experimentally studied with a focus on the comparison between two different accelerated corrosion techniques by using artificial climate environment (ACE) and electrochemical chloride extraction (ECE). To do this, six RC square columns were designed and fabricated as the test specimens.

Experimental investigation on seismic behavior of corroded

...

This study investigated the seismic performance and

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soil structure interaction of a scoured bridge models with pile foundation by shaking table tests using a biaxial laminar shear box.

Experimental investigation on seismic behavior of scoured ... Based on the tested hysteresis loops, the seismic behaviors of MCS wall, diagonal and cross BPCS walls are investigated and compared in terms of lateral load-displacement capacity, displacement ductility, stiffness degradation and energy dissipation in the following subsections (the numerical results are used for SW3-1.5); the influences of SSR and bracing type on the seismic behavior of the BPCS walls are also analyzed and discussed.

Experimental and numerical investigations on seismic ... Five 3/4-scale reinforced concrete beam-column joints were tested to investigate the seismic behavior of the joints. The variables in the tested specimens include column orientations and the presence of slabs on the top of beams. The specimens were subjected to quasi-static load reversals to simulate earthquake loadings.

Experimental and Numerical Investigations on the Seismic ... Cyclic loading tests were conducted to investigate the seismic behavior of the PC columns with proposed connections as well as the feasibility and reliability of novel box connections. The failure mode, hysteretic behavior, bearing capacity, ductility, stiffness degradation and energy dissipation were obtained and discussed.

Experimental Investigations on the Seismic Behavior of ... Laboratory experiments are carried out on single joints to investigate the cyclic behaviour and, more specifically, the impairment of strength, the ductility ratio and the equivalent

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viscous damping ratio.

Experimental–numerical investigation on the seismic ...
Experimental investigation of seismic behaviour of corroded RC bridge piers Conference Paper (PDF Available) · October 2018 with 248 Reads How we measure 'reads'

(PDF) Experimental investigation of seismic behaviour of ...
Experimental investigation on seismic performance of RC shear walls reinforced with CFRP bars in boundary elements to enhance the resilience was presented which is expected for stable resistance capacity and small residual deformation.

Experimental Investigation on Seismic Resistance of RC ...
Sun, Z., Wang, D., Bi, K. et al. Experimental and numerical investigations on the seismic behavior of bridge piers with vertical unbonded prestressing strands. Bull Earthquake Eng 14, 501–527 (2016).
<https://doi.org/10.1007/s10518-015-9840-0>. Download citation. Received: 18 July 2015. Accepted: 31 October 2015. Published: 06 November 2015

Experimental and numerical investigations on the seismic ...
EXPERIMENTAL INVESTIGATIONS ON LVL SEISMIC RESISTANT WALL AND FRAME SUBASSEMBLIES ... idealised flag-shape hysteresis behaviour (fib 2003) Being the seismic inelastic demand accommodated within the connection itself, when a seismic event occurs, a ... On the basis of the preliminary experimental tests carried out in (Palermo et al. 2005 ...

EXPERIMENTAL INVESTIGATIONS ON LVL SEISMIC RESISTANT WALL ...

Abstract This article investigates the seismic behavior of

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masonry infilled RC frames with/without openings. Four full-scale, single-story, and single-bay specimens were tested under constant vertical loads and quasi-static cyclic lateral loads.

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