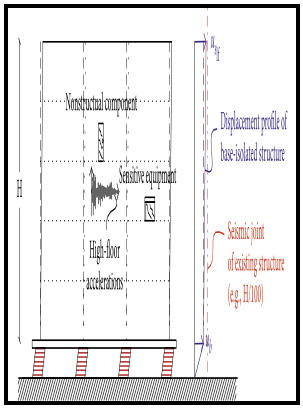
Non-linear seismic analysis of fully base isolated structures on flexible soils

Institut für Baustatik und Konstruktion Eidgenössische Technische Hochschule - Earthquake responses of a base



Description: -
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Mendelsohn, Erich, -- 1887-1953.
Structural dynamics -- Mathematical models.
Soil mechanics -- Mathematical models.
Foundations -- Earthquake effects -- Mathematical models.
Earthquake resistant design -- Mathematical models.Non-linear seismic analysis of fully base isolated structures on flexible soils
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Bericht (Institut für Baustatik und Konstruktion ETH Zürich) -- Nr. 162Non-linear seismic analysis of fully base isolated structures on flexible soils
Notes: Bibliography: p. [101]-[105].
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Earthquake responses of a base

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Seismic behavior of Isolated Bridges : Engineering

Any of various types of knock off shear keys will solve the problem, obviously implying some local damage under earthquake forces.

Frontiers

Based on Figure 4 a , connections are categorized as flexible zone 3 if 3 The beam-to-column connections that are not categorized as either fully-rigid or flexible are classified as semi-rigid zone 2. The frames are subjected to strong ground motion matched to response spectrums of soft soil of Chinese GB50011-2010 and Ethiopian ES8-2015 for linear time history analysis. Discussions The above optimal parameters of seismic isolation devices depend on the three similar structures themselves and the objects in them, respectively.

Frontiers

A parametric study is conducted to investigate the effects of bearing parameters such as stiffness and damping characteristics on the effectiveness of isolation for the bridge system. The behaviour at each incremental point along the pile length was calculated and plotted. However, in the higher thickness of liquefiable soil, the walls were flexible and so may improve by just 50%.

Seismic risk management of piles in liquefiable soils stabilised with cementation or lattice structures

As seen in , for the long-pier model i. However, in deck isolated bridges the local modes of tall massive columns may contribute substantially to the

drift demand of the respective isolator-pier systems.

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