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level of performance based seismic design pbsd for bridges in the united states the goal of these guidelines is to provide designers and owners with a methodology for selecting the appropriate level of performance for a given bridge and implementing a design process that will reasonably result in achieving that level of performance under

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seismic design of a bridge entails ensuring adequate performance of all its critical components namely i the deck that has to remain elastic during the design seismic action ii the piers which in most cases are the main source of seismic energy dissipation ductile pier design iii the bearings that should not exceed the allowable defo

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seismic resilient bridge structures are that do not require repair or can be restored to normal operating condition with minor repair after an earthquake which are mainly characterized by self centering capacity damage control capacity and easy repair

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probabilistic performance based seismic design enables design and acceptance criteria to be specified by a continuum of limit states and incorporates uncertainty in all the sources of data

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current seismic design guidelines for bridges as reflected by the recently published nchrp12 49 recommended lrfd guidelines are placing increasing emphasis on earthquake induced displacements as a measure of seismic demand and performance

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section 20 1 3 a seismic design example of a threespan continuous cast in place prestressed cip ps concrete box girder bridge is presented to illustrate various design applications following the seismic design procedure flowchart the example is intended to serve as a model seismic design of an ordinary standard bridge using the current

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the caltrans seismic design methodology applies to all highway bridges designed in california bridges are categorized as either important or ordinary depending on the desired level of seismic performance the ordinary category is divided into two classifications standard and non standard

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bridge with curved configuration is crucial for seismic design especially for various performance based aspects as the curved nature attracts torsional moment which can influence the response parameters of the bridge 1 2

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seismic bridge design has been evolving based on research findings and lessons learned from past

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