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behavior of L-RB is  
considered as bilinear, and  
the interaction between the  
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real earthquake excitations,

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namely the El-Centro (1940),  
Northridge (1994) (recorded  
at La County fire station)  
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dynamic problem. According  
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results, even though the  
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the same temperature  
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control systems. This paper  
describes several case-  
studies and lessons learned  
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The results obtained from numerical analyses of the bridge showed that the isolation system lengthened the period of bridge and

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minimised deck displacement,  
base shear and base moment  
of the bridge. It is  
concluded that the isolation  
system significantly reduced  
the destructive effects of  
near-fault ground motions on  
the bridge

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better reflect the  
cumulative damage of the  
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bridge with FPB. The review  
of above studies indicates

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that there had not been  
sufficiently significant  
information to investigate  
the influence of the  
friction coefficient and  
isolation period of the FPB  
on the energy response of  
isolated bridges in order to

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two types is about 4% below.

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(ERS) using the displacement  
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isolation. Project R27-70  
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and calibrate the quasi-  
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the accuracy and suitability  
of the simplified analysis

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techniques for evaluating  
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a particular class of  
bridges isolated at

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