South Africa s micro-module seismic isolation

Overview

Led by Professor Musa Manzi, Director of the Wits Seismic Research Centre, this innovative active-passive seismic approach is envisaged to revive the seismic mining methods in the country and will contribute to sustainable mining activities. In earthquake-prone regions, the conventional approach to structural design often focuses on making buildings strong and stiff enough to resist seismic forces, which can lead to significant damage and costly repairs even if collapse is prevented. To withstand these horizontal forces, modular support. The seismically isolated Sompago viaduct of the Udine-Tarvisio freeway, after its Figure 4. The innovation, a project led by the Wits Seismic Research Centre in the School of Geosciences, is a response to the Advanced Orebody Knowledge. The study area is centred on Leeu Gamka in the Western Cape province, a tectonically stable intraplate setting and is therefore expected to be seismically quiet. This FE model was used to investigate the behaviour of the URM when subjected to.

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This study has compared seismic design codes across various countries, examining the implementation of base-isolation and energy dissipation ...

Participants will gain a comprehensive understanding of isolation principles, various isolator types, design methodologies, analytical techniques, and construction considerations, empowering them to ...

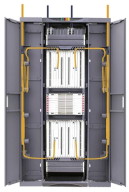
This study has compared seismic design codes across various countries, examining the implementation of base-isolation and energy dissipation systems in high-seismic regions such as the ...

It first introduces the seismic isolation concept, development history and compares available (most widely used) seismic isolation systems, highlighting their advantages and ...

This thesis documents a microseismicity study in the interior of South Africa. The study area is centred on Leeu Gamka in the Western Cape province, a tectonically stable intraplate setting and is therefore ...

After a brief introduction on the basic concepts of seismic isolation, applications to new strategic and public buildings are shown, as well as to new residential buildings, pointing out the very good ...

The results obtained from this investigation illustrate that a large percentage of the single story URM low cost housing units in South Africa will be able to withstand the maximum seismic loading that they ...



The project aims to combine active and passive seismic methods, using a combination of innovative instruments, for exploration in noisy, near-mine environments at 300-3500 m depths. “Our ...

We report on a micro-earthquake study in the interior of South Africa, in a tectonically stable intraplate setting centered on the town of Leeu Gamka, Western Cape province.

Designed and tested by our own research labs to resist the horizontal seismic forces which typically develop during an earthquake. Used with the Hilti MQ System, the new Hilti MQS components ...

Understand South Africa''s building codes for earthquake zones with clear, practical guidance for safe construction practices.

Contact Us

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