

## **Regional Adjustment to the Analytical Attenuation Coefficient in the GMPM BSSA 14 for the Region of Spain**

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**Abstract :** There are various types of analysis that allow us to involve seismic phenomena that cause strong requirements for structures that are designed by society; one of them is a probabilistic analysis which works from prediction equations that have been created based on metadata seismic compiled in different regions. These equations form models that are used to describe the 5% damped pseudo spectra response for the various zones considering some easily known input parameters. The biggest problem for the creation of these models requires data with great robust statistics that support the results, and there are several places where this type of information is not available, for which the use of alternative methodologies helps to achieve adjustments to different models of seismic prediction.

**Keywords :** GMPM, 5% damped pseudo-response spectra, models of seismic prediction, PSHA

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