

# **Comparative analysis between elastic response spectra of different European Seismic Codes.**

**Belén Benito, Yolanda Torres & Lutz Hermans**

*Polytechnic University of Madrid*

**Alberto Bernal**

*B&A Engineering Enterprise*



## **ABSTRACT:**

A comparative analysis between the elastic response spectra defined by different European seismic codes is presented in this paper. The following normatives are analyzed: Spanish building code NCSE-02, Eurocode 8 (EC-8), Italian building code NTC-08 and National Annex to EC-8 for Portugal and France. The study is carried out in the frame of a project aimed at definition of the Spanish National Annex to EC-8, and the results provide us some criteria for establishing the spectral shapes and the soil coefficients to be used in the Spanish National Annex to EC-8 as well as in a new revision of the NCSE-02.

**Keywords:** “Response spectra”, “European Seismic codes”, “Eurocode”.