Abstract

What is resilience? What is the role of structural engineering in the resilience’s definition? Why is so important to emigrate to this new paradigm? And why is a vital question to proceed by including these concepts into a regional Resilience Improvement Program for the Yucatan Peninsula? The aim of this work is to explain the concept of resilience and how it interacts with structural engineering redefining their methods of analysis and design, in order to facilitate the rebound of a region that is affected by an extreme event. Based on the integration of engineering- government-community, the construction of a Resilience Improvement Program for an urban region placed in Yucatan Peninsula is also proposed in this paper.

Keywords

Resilience, hurricanes, resilience improvement program, extreme conditions, non linear analysis