

عنوان مقاله:

Vulnerability and strengthening of engineering structures

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خلاصه مقاله:

Engineering structures, such as buildings and bridges, are essential components of modern society. However, these structures are often susceptible to damage and failure due to natural disasters, aging, poor maintenance, design flaws, and other factors. This vulnerability can have devastating consequences for individuals and society as a whole. Therefore, it is crucial to develop and implement measures to strengthen engineering structures, increase their resilience, and minimize their vulnerability. In this article, we will explore the concept of vulnerability and strengthening of engineering structures, discuss various strengthening techniques, analyze case studies, and provide recommendations for stakeholders to improve structural resilience.

کلمات کلیدی:

Green engineering, resilient structures, Artificial intelligence (AI), fiber-reinforced polymers

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