عنوان فارسی مقاله:

استفاده از روش مقاوم سازی متقابل ACM
(مواد پیشرفته کامپوزیت) برای سازه‌های فولادی

عنوان انگلیسی مقاله:

Application of ACM Brace Retrofitting Countermeasure
to Steel Structure Tomiya Takatani

توجه!

این فایل تنها قسمتی از ترجمه می‌باشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک نمایید.
4. Concluding Remarks

In this paper, an advanced seismic retrofitting work for RC and S story building structures built by some old earthquake resistant design codes before 1981 was reported in order to save a lot of residents' lives against a large-damaged earthquake. ACM bracing method consists of CFRP rod, steel sleeve, and steel anchor. This ACM bracing method was applied to S two-story building structure in 2010. Materials in the seismic retrofitting work using ACM bracing method and the construction process of ACM brace were described in this paper.

The summary obtained in this paper is as follows.

(1) ACM brace retrofitting work has several construction advantages such as short construction period and low cost in comparison with the steel bracing method. Namely, ACM bracing method has a high cost performance.

(2) Although the installation work of steel braces requires a large construction machine of a crane-carrying truck, the installation of ACM brace is not needed any large construction machine and also is effectively conducted under a safe operation.