عنوان فارسی مقاله:
تشخیص آسیب مبنی بر انعطاف پذیری مودال برای سازه های تیر آزاد (تیر طره ای) با استفاده از تعیین (اصلاح) مبنای اینگلیسی مقاله:
Modal flexibility-based damage detection of cantilever beam-type structures using baseline modification!
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 کنید.
6. Conclusion

In this paper, a new damage detection approach for cantilever beam-type structures was developed using the DIID estimated by modal flexibility matrix. The proposed approach can be utilized for damage detection of cantilever beam-type structures such as super high-rise buildings, high-rise apartment buildings, etc. A bending moment is dominant in the total behavior of the structures. Analytical studies on the DIID of cantilever beam-type structures have shown that changes in inter-storey deflections abruptly occur from damage location. Baseline modification concept was newly introduced to detect multiple damages in cantilever beam-type structures by changing the baseline to the prior damage location. For validating the applicability of the proposed approach to cantilever beam-type structures, a series of numerical and experimental studies on a 10-storey building model were carried out.