

## RETRACTION NOTE: An Implicit Unconditionally Stable Integration Method for Nonlinear Structural Dynamics and Earthquake Engineering Problems

Kamuran Ari<sup>1</sup> <sup>a</sup>

<sup>a</sup>Dept. of Civil Engineering, Nuh Naci Yazgan University, Kayseri 38100, Turkey

**Retraction note to:** KSCE Journal of Civil Engineering (2022) 26(5):2212-2224  
DOI: 10.1007/s12205-022-0101-x

The author has retracted this article because a beta coefficient was introduced in the formulation when integrating Eq. (9) ( $\delta u$ ) to obtain Eq. (10) ( $\delta q$ ). The properties of this coefficient had been determined based on a trial and error process. However, after publication it became apparent that this beta value should have been determined based on the numerical amplification matrix of the proposed solution. The author agrees with this retraction notice.

### Reference

Ari K (2022) An implicit unconditionally stable integration method for nonlinear structural dynamics and earthquake engineering problems. *KSCE Journal of Civil Engineering* 26(5):2212-2224, DOI: [1007/s12205-022-0101-x](https://doi.org/10.1007/s12205-022-0101-x)