NUCLEAR SCIENCE AND ENGINEERING · VOLUME 197 · 3193 · DECEMBER 2023

DOI: https://doi.org/10.1080/00295639.2023.2258306

Correction

Article title: Frequency Transform Method for Transient Analysis of Nuclear Reactors in Monte Carlo
Authors: Miriam A. Kreher, Samuel Shaner, Benoit Forget, Kord Smith
Journal: *Nuclear Science and Engineering*
Bibliometrics: Volume 197, Number 2, pages 279–290
DOI: https://doi.org/10.1080/00295639.2022.2067739

The frequency transform derivation and code has been rigorously tested since the publication of this paper, and the diffusion solver contained a small error in the calculation of the diffusion coefficients in the code. However, since the role of nonlinear diffusion coefficients is to force balance between coarse mesh finite difference and Monte Carlo, they compensated for this error, resulting in an insignificant impact on the final results. The values of the nonlinear diffusion coefficients are, nonetheless, affected. Therefore, the analysis on diffusion coefficients in Sec. III.C of this work is erroneous and has been rewritten and supplemented by an analysis of how other multigroup parameters evolve during the transient (see the online version of this article for the updated text and figures).