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Title: Analysis of Finite Difference Discretization Schemes forDiffusion in Spheres with Variable Diffusivity

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PII: S0098-1354(14)00174-4
DOI: http://dx.doi.org/doi:10.1016/j.compchemeng.2014.05.022
Reference: CACE 4975

To appear in: *Computers and Chemical Engineering*

Received date: 28-4-2014
Accepted date: 27-5-2014

Please cite this article as: Ashlee N. Ford Versypt, Richard D. Braatz, Analysis of Finite Difference Discretization Schemes forDiffusion in Spheres with Variable Diffusivity, *Computers and Chemical Engineering* (2014), http://dx.doi.org/10.1016/j.compchemeng.2014.05.022

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- The diffusion equation in spherical coordinates with variable diffusivity is considered.
- Two finite difference discretization schemes are compared.
- The schemes are tested on five cases of the functional form for the variable diffusivity.
- A more accurate and numerically stable discretization scheme is recommended.

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