## **Accepted Manuscript**

Extending the Excluded Volume for Percolation Threshold Estimates in Polydisperse Systems: The Binary Disk System

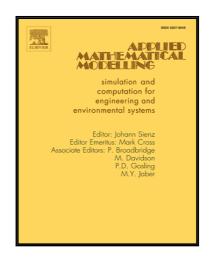
Kelsey Meeks, Michelle L. Pantoya, Micah Green, Jordan Berg

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#### ACCEPTED MANUSCRIPT

### Highlights

- A new method for prediction of percolation thresholds is presented.
- An extension of the concept of excluded volume to polydisperse systems is proposed.
- $\bullet\,$  Percolation threshold estimates for the 2D binary disk system.

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