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Scaling and critical behavior of lattice and continuum porous media with different connectivity configurations

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Highlights:

- Scaling and critical percolation properties of both lattice and continuum systems were obtained
- The connectivity behavior of point-to-point connectivity configuration is compared with that in the conventional line-to-line connectivity model
- It was showed that the percolation exponents of the point-to-point connection for both site and continuum models have identical values
- Scaling functions (connectivity and conductivity) of both lattice and continuum percolation systems for point-to-point model was determined and compared with line-to-line models.

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