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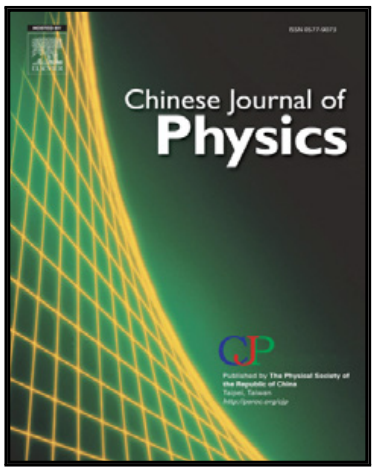

A simple approximation for Ising spin models

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PII: S0577-9073(17)30947-4
DOI: 10.1016/j.cjph.2018.06.019
Reference: CJPH 566

To appear in: *Chinese Journal of Physics*

Received date: 24 July 2017
Revised date: 7 June 2018
Accepted date: 7 June 2018

Please cite this article as: Hadey K. Mohamad , A simple approximation for Ising spin models, *Chinese Journal of Physics* (2018), doi: 10.1016/j.cjph.2018.06.019

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Highlights

- A simple method is introduced based on the correlated molecular-field theory.
- New schemes for approximated solutions are presented.
- Our procedure considers three or four-spin cluster (in a linear, triangular, and quadratic geometry, respectively).
- The results of critical temperatures for some lattices are listed.

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