

(23) スピノダル分解に伴う境界層の生成

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研究会で報告した内容を短縮して再録したとしても読者にそれ程有用とは思われないので、内容御希望の方には論文の前刷を用意しております。御請求下さい。

このスペースには関連論文の内、主としてモンテカルロ法を用いたものを抜き出してリストにしました。タイトルを含めてありますので論文探しに役立つと思います。尚手元で入手しにくい雑誌からのものは洩れています。二次相転移関係の論文は沢山あり削除するのに苦労しました。重要な文献が脱落しているかもしれません。補って下されば幸です。大凡年代順に並べ且つ関連ありそうなものは順序をかえて集めています。

- Phase Separation by Spinodal Decomposition in Isotropic Systems: J. W. Cahn, J. Chem. Phys. **42** (1965), 93
- Computer Simulation of a Discontinuous Phase Transition in the Two-Dimensional One-Spin-Flip Ising Model: T. Schneider and E. Stoll, Anharmonic Lattices, Structural Transitions and Melting, edited by T. Riste, P. 275
- Computer Simulation of One-Dimensional Spinodal Decomposition: L. A. Swanger, P. K. Gupta and A. R. Cooper, Jr., Acta. Metal. **18**(1970), 9
- Simulation of Crystal Growth with Surface Diffusion: G. H. Gilmer and P. Bennema, J. Appl. Phys. **43**(1972), 1347
- Evidence for Fisher's Droplet Model in Simulated Two-Dimensional Cluster Distributions: E. Stoll, K. Binder, and T. Schneider, Phys. Rev. **B6**(1972), 2777
- Monte Carlo Study of the Surface Area of Liquid Droplets: K. Binder and D. Stauffer, J. Stat. Phys. **6**(1972), 49
- Monte Carlo simulation of the kinetics of heterogeneous nucleation: A. I. Michaels, G. M. Pound and F. F. Abraham, J. Appl. Phys. **45**(1974), 9
- Lattice-Gas Interface Structure: A Monte Carlo Simulation H. J. Leamy, G. H. Gilmer, and K. A. Jackson, Phys. Rev. Lett. **30**(1973), 6, 601
- Scaling Theory for Metastable States and Their Lifetimes: K. Binder and E. Stoll, Phys. Rev. Lett. **31**(1973), 47

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- Kinetic Ising Model Study of Phase Separation in Binary Alloys: K. Binder, Z. Physik **267**(1974), 313–322
- Theory for the Slowing Down of the Relaxation and Spinodal Decomposition of Binary Mixtures: K. Binder and D. Stauffer, Phys. Rev. Lett. **33**(1974), 1006
- Investigation of metastable states and nucleation in the kinetic Ising model: K. Binder and H. Muller-Krumbhaar, Phys. Rev. **B9**(1974), 2328
- Monte Carlo computer experiments on critical phenomena and metastable states: K. Binder, Adv. Phys. **23**(1974), 917
- Monte Carlo Studies of the Interface Roughening Transition: R. H. Swendsen, Phys. Rev. **B15**(1977), 5421
- Monte Carlo Calculation of Phase Separation in a Two-Dimensional Ising System: P. A. Flinn, J. Stat. Phys. **10**(1974), 89
- Spinodal Decomposition in Monte Carlo Simulations of a Binary Alloy: A. B. Bortz, J. Stat. Phys. **11**(1974), 181
- Time evolution of a quenched binary alloy; Computer simulation on a two-dimensional model system: A. B. Bortz, M. H. Kalos and J. L. Lebowitz and M. A. Zendes, Phys. Rev. **B10**(1974), 535
- Time evolution of a quenched binary alloy. II; Computer simulation of a three-dimensional model system: J. Marro, A. B. Bortz, M. H. Kalos, and J. L. Lebowitz, Phys. Rev. **B12**(1975), 2000
- Time evolution of a quenched binary alloy. III; Computer simulation of a two-dimensional model system: M. Rao, M. H. Kalos, J. L. Lebowitz and J. Marro, Phys. Rev. **B13**(1976), 4328
- Time evolution of a quenched binary alloy. IV; Computer simulation of a three-dimensional model system, Amit sur, L. Lebowitz, J. Marro and K. H. Kalos, Phys. Rev. **B15**(1977), 3014
- Computer simulation of the nucleation and thermodynamics of microclusters: M. Rao, B. J. Berne, and M. H. Kalos, J. Chem. Phys. **68**(1978), 1325
- Monte Carlo Simulation of Quenched Two-Dimensional Single Spin Flip Kinetic Ising Model: C. Kawabata and K. Kawasaki, Phys. Lettwes **65A**(1978), 137
- Structure of a Liquid-Vapor Interface: M. H. Kalos, J. K. Percus, and M. Rao, J. Stat. Phys. **17**(1977), 111

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- Time Evolution of a Magnetic Binary Alloy; Computer Simulation of a Two-Dimensional Model System: T. Kawasaki, Prog. Theor. Phys. **61**(1979), 384
- Interface Structure in a Magnetic Binary Alloy: T. Kawasaki, Prog. Theor. Phys. **62**(1979), 1174