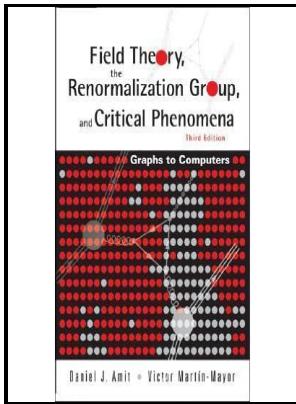


Field theory, the renormalization group, and critical phenomena - graphs to computers

World Scientific - Field Theory, the Renormalization Group, and Critical Phenomena: Graphs to Computers (3rd Edition) : Daniel J Amit, Victor Martin



Description: -

- Examinations -- Questions.

Examinations -- Nebraska -- Questions.

Renormalization (Physics)

Field theory (Physics)

Critical phenomena (Physics)Field theory, the renormalization group, and critical phenomena - graphs to computers

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The full meaning of this difference will become clearer from Chapter 4 onward. The reason is that while the mean field approximation gives a free energy which behaves linearly for asymptotically large values of the order parameter, the Landau approximation behaves as a high power. If the first two editions have been found useful to merit a third one, this edition will surely provide a radically new experience: The new part focuses on numerical field theory, not in order to suggest the superiority of simulations over the perturbative approach of parts I and II, but rather to underline the strength of their synthesis.

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This fact introduces additive renormalization in addition to the multiplicative renormalization see, e. Both have moved closer to centerstage and are frequent participants in discussions of lattice gauge theories, of models of the inflationary universe, of disordered systems and of spin-glasses.

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This brings two, once unapproachable beasts, into center scene: the critical point and numerical simulations. By a second order transition we mean one in which the system approaches, continuously, a state at which the scale of correlations becomes unbounded. This procedure has a heuristic value but is far from rigorous.

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Unless, again, one encounters spontaneously broken symmetry. It does not depend on whether it is an Ising or Heisenberg magnet, or a superfluid,

whether as a Heisenberg ferromagnet it is isotropic or not.

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J_x is a c-number source, which has to be replaced by an anticommuting c-number in the case of fermions.

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