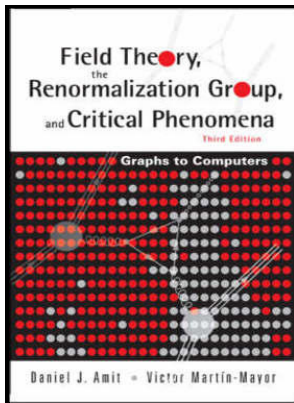


# Field theory, the renormalization group, and critical phenomena - graphs to computers

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Notes: Includes bibliographical references and index.

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We will start by illustrating the process in the framework of the quantum mechanics of a system with a single degree of freedom, following Abers and Lee. Chapter 8 introduces properly the core concepts of any book on the subject, namely the renormalization group and critical phenomena. Teller, Physical Review, 64, 178 1943 ; R.

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Denote the center of the cube by an integer lattice vector  $I$ , of which there is a finite set when the volume is finite. An exact solution in absence of a field was found by L. Pergamon, London, 1956 and L.

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Non-perturbative methods and numerical simulations are introduced in this new edition. This is the content of universality, and it takes all the power of the renormalization analysis to bring it to the surface. To be referred to as FW.

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Thus all fluctuations are ignored. In the present case the vacuum is the ground state.

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The physical quantities which are calculated for real times are obtained as analytic continuations of the Euclidean ones. This is conventionally called the causal function.

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What is meant here by symmetry is the internal spin symmetry. For the type of system discussed above, rigorous formulations have been developed by Nelson, Simon and others.

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