



Introduction to the Functional Renormalization Group (Lecture Notes in Physics)

By Peter Kopietz, Lorenz Bartosch, Florian Schütz

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The renormalization group (RG) has nowadays achieved the status of a meta-theory, which is a theory about theories. The theory of the RG consists of a set of concepts and methods which can be used to understand phenomena in many different fields of physics, ranging from quantum field theory over classical statistical mechanics to nonequilibrium phenomena. RG methods are particularly useful to understand phenomena where fluctuations involving many different length or time scales lead to the emergence of new collective behavior in complex many-body systems. In view of the diversity of fields where RG methods have been successfully applied, it is not surprising that a variety of apparently different implementations of the RG idea have been proposed. Unfortunately, this makes it somewhat difficult for beginners to learn this technique. For example, the field-theoretical formulation of the RG idea looks at the first sight rather different from the RG approach pioneered by Wilson, the latter being based on the concept of the effective action which is iteratively calculated by successive elimination of the high-energy degrees of freedom. Moreover, the Wilsonian RG idea has been implemented in many different ways, depending on the particular problem at hand, and there seems to be no canonical way of setting up the RG procedure for a given problem.

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