



# Conformal Quantum Field Theory in D-dimensions (Mathematics and Its Applications)

*E.S. Fradkin, Mark Ya. Palchik*

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Our prime concern in this book is to discuss some most interesting prospects that have occurred recently in conformally invariant quantum field theory in a  $D$ -dimensional space. One of the most promising trends is constructing an exact solution for a certain class of models. This task seems to be quite feasible in the light of recent results. The situation here is to some extent similar to what was going on in the past years with the two-dimensional quantum field theory. Our investigation of conformal Ward identities in a  $D$ -dimensional space, carried out as far back as the late 1970s, showed that in the  $D$ -dimensional quantum field theory, irrespective of the type of interaction, there exists a special set of states of the field with the following property: if we require that one of these states should vanish, this determines an exact solution of a certain field model. These states are analogous to null-vectors which determine the minimal models in the two-dimensional field theory. On the other hand, the recent researches supplied us with a number of indications on the existence of an infinite-parameter algebra analogous to the Virasoro algebra in spaces of higher dimensions  $D \geq 2$ . It has also been shown that this algebra admits an operator central expansion. It seems to us that the above-mentioned models are field theoretical realizations of the representations of these new symmetries for  $D \geq 3$ .

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