



# Introduction to the Replica Theory of Disordered Statistical Systems (Collection Alea-Saclay: Monographs and Texts in Statistical Physics)

*Viktor Dotsenko*

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## **Introduction to the Replica Theory of Disordered Statistical Systems (Collection Alea-Saclay: Monographs and Texts in Statistical Physics)** Viktor Dotsenko

This text describes the statistical mechanics of classical spin systems with quenched disorder. The first part covers the physics of spin-glass states using results obtained within the framework of the mean field theory of spin glasses. The second part is devoted to the theory of critical phenomena in the presence of weak quenched disorder. This includes a systematic derivation of the traditional renormalization group theory. In the third part Dotsenko describes other types of disordered systems, relating them to new results at the frontiers of modern research. The book is suitable for graduate students and researchers in the field of statistical mechanics of disordered systems.

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