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Título: Invariant Random Fields On Spaces With a Group Action

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Sinopsis

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Highly interdisciplinary nature

Fills a gap in the literature

Many new results, and practical applications as for example in cosmology and earthquake engineering?

The author describes the current state of the art in the theory of invariant random fields. This theory is based on several different areas of mathematics, including probability theory, differential geometry, harmonic analysis, and special functions. The present volume unifies many results scattered throughout the mathematical, physical, and engineering literature, as well as it introduces new results from this area first proved by the author. The book also presents many practical applications, in particular in such highly interesting areas as approximation theory, cosmology and earthquake engineering. It is intended for researchers and specialists working in the fields of stochastic processes, statistics, functional analysis, astronomy, and engineering.

Content Level » Research

Keywords » 60G60, 60G17, 60G22, 85A40 - cosmic microwave background - limit theorems - random field - sample paths properties - spectral expansion

Related subjects » Cosmology - Probability Theory and Stochastic Processes