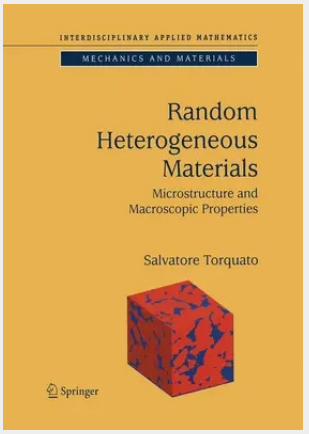
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# Random Heterogeneous Materials

Microstructure and Macroscopic Properties

The interdisciplinary subject of random heterogeneous materials has experienced remarkable growth since the publication of the well-known monograph Statistical Con tinuum Theories by Beran ( 1968). Many of these advances, especially those concerning the statistical characterization of the microstructure and its effect on the physical prop erties of the material, have not been treated fully in any book. One of the intents of the present book is to fill this gap. This book also distinguishes itself in that it provides a unified rigorous framework to characterize the microstructures and macroscopic properties of the widely diverse types of heterogeneous materials found in nature and synthetic products. Emphasis is placed on providing foundational theoretical methods that can simultaneously yield results of practical utility. This book treats a wide breadth of topics, but the choice of subjects naturally reflects my own interests. The sheer enormity of the field has prevented me from covering many important topics. I apologize to those colleagues, known and unknown, who may not find enough of their own work cited in the ensuing pages.

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139,99 € (zzgl. MwSt.)

*Lieferfrist: bis zu 10 Tage*

**Artikelnummer:** 9781475763577
**Medium:** Buch
**ISBN:** 978-1-4757-6357-7
**Verlag:** Humana
**Erscheinungstermin:** 22.03.2013
**Sprache(n):** Englisch
**Auflage:** Erscheinungsjahr 2013
**Serie:** Interdisciplinary Applied Mathematics
**Produktform:** Kartoniert
**Gewicht:** 1344 g
**Seiten:** 703
**Format (B x H):** 178 x 254 mm



**Kundenservice Verlag Dr. Otto Schmidt KG**
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)