

1. Record Nr.	UNINA9910347045503321
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Titolo	The method of densities for non-isotropic Boolean models
Pubbl/distr/stampa	KIT Scientific Publishing, 2015
ISBN	1000045101
Descrizione fisica	1 online resource (122 p. p.)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book deals with the Boolean model, a basic model of stochastic geometry for the description of porous structures like the pore space in sand stone. The main result is a formula which gives in two and three dimensions a series representation of the most important model parameter, the intensity, using densities of so-called harmonic intrinsic volumes, which are new observable geometric quantities.