

1. Record Nr.	UNINA9910767563903321
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Titolo	Generalized Stochastic Processes : Modelling and Applications of Noise Processes / / by Stefan Schäffler
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2018
ISBN	3-319-78768-3
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XV, 183 p. 69 illus., 1 illus. in color.)
Collana	Compact Textbooks in Mathematics, , 2296-4568
Disciplina	519.2
Soggetti	Probabilities Probability Theory and Stochastic Processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Generalized Functions -- Stochastic Processes -- Stochastic Differential Equations -- Generalized Random Fields.
Sommario/riassunto	This textbook shall serve a double purpose: first of all, it is a book about generalized stochastic processes, a very important but highly neglected part of probability theory which plays an outstanding role in noise modelling. Secondly, this textbook is a guide to noise modelling for mathematicians and engineers to foster the interdisciplinary discussion between mathematicians (to provide effective noise models) and engineers (to be familiar with the mathematical background of noise modelling in order to handle noise models in an optimal way). Two appendices on "A Short Course in Probability Theory" and "Spectral Theory of Stochastic Processes" plus a well-chosen set of problems and solutions round this compact textbook off.