

1.	Record Nr.	UNISA990003117410203316
	Autore	MAURON, Charles
	Titolo	Phedre / Charles Mauron
	Pubbl/distr/stampa	Paris : Corti, copyr.. 1968
	Descrizione fisica	188 p. ; 23 cm
	Disciplina	792.95
	Soggetti	Racine, Jean. Phedre
	Collocazione	II.4.B.159
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	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910300132803321
	Autore	Saichev Alexander I
	Titolo	Distributions in the Physical and Engineering Sciences, Volume 3 : Random and Anomalous Fractional Dynamics in Continuous Media // by Alexander I. Saichev, Wojbor A. woyczyski
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2018
	ISBN	3-319-92586-5
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	Descrizione fisica	1 online resource (XX, 403 p. 61 illus., 6 illus. in color.)
	Collana	Applied and Numerical Harmonic Analysis, , 2296-5009
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	Soggetti	Probabilities Engineering mathematics Functional analysis Statistics Probability Theory and Stochastic Processes Engineering Mathematics Functional Analysis Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences
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Livello bibliografico	Monografia
Nota di contenuto	Introduction to Volume 3 -- Notation -- Basic Distributional Tools for Probability Theory -- Random Distributions: Generalized Stochastic Processes -- Dynamical and Statistical Characteristics of Random Fields and Waves -- Forced Burgers Turbulence and Passive Tracer Transport in Burgers Flows -- Probability Distributions of Passive Tracers in Randomly Moving Media -- Levy Processes and Their Generalized Derivatives -- Linear Anomalous Fractional Dynamics in Continuous Media -- Nonlinear and Multiscale Anomalous Fractional Dynamics in Continuous Media -- Appendix A: Basic Facts About Distributions -- Bibliography -- Index.
Sommario/riassunto	Continuing the authors' multivolume project, this text considers the theory of distributions from an applied perspective, demonstrating how effective a combination of analytic and probabilistic methods can be for solving problems in the physical and engineering sciences. Volume 1 covered foundational topics such as distributional and fractional calculus, the integral transform, and wavelets, and Volume 2 explored linear and nonlinear dynamics in continuous media. With this volume, the scope is extended to the use of distributional tools in the theory of generalized stochastic processes and fields, and in anomalous fractional random dynamics. Chapters cover topics such as probability distributions; generalized stochastic processes, Brownian motion, and the white noise; stochastic differential equations and generalized random fields; Burgers turbulence and passive tracer transport in Burgers flows; and linear, nonlinear, and multiscale anomalous fractional dynamics in continuous media. The needs of the applied-sciences audience are addressed by a careful and rich selection of examples arising in real-life industrial and scientific labs and a thorough discussion of their physical significance. Numerous illustrations generate a better understanding of the core concepts discussed in the text, and a large number of exercises at the end of each chapter expand on these concepts. Distributions in the Physical and Engineering Sciences is intended to fill a gap in the typical undergraduate engineering/physical sciences curricula, and as such it will be a valuable resource for researchers and graduate students working in these areas. The only prerequisites are a three-four semester calculus sequence (including ordinary differential equations, Fourier series, complex variables, and linear algebra), and some probability theory, but basic definitions and facts are covered as needed. An appendix also provides background material concerning the Dirac-delta and other distributions.