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Titolo	Fundamentals and Advanced Techniques in Derivatives Hedging [[electronic resource] /] / by Bruno Bouchard, Jean-François Chassagneux
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ISBN	3-319-38990-4
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XII, 280 p.)
Collana	Universitext, , 0172-5939
Disciplina	650.01513
Soggetti	Economics, Mathematical Probabilities Partial differential equations Calculus of variations Quantitative Finance Probability Theory and Stochastic Processes Partial Differential Equations Calculus of Variations and Optimal Control; Optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part A. Fundamental theorems -- Discrete time models -- Continuous time models -- Optimal management and price selection.- Part B. Markovian models and PDE approach -- Delta hedging in complete market -- Super-replication and its practical limits -- Hedging under loss constraints.- Part C. Practical implementation in local and stochastic volatility models -- Local volatility models -- Stochastic volatility models -- References.
Sommario/riassunto	This book covers the theory of derivatives pricing and hedging as well as techniques used in mathematical finance. The authors use a top-down approach, starting with fundamentals before moving to applications, and present theoretical developments alongside various exercises, providing many examples of practical interest. A large spectrum of concepts and mathematical tools that are usually found in separate monographs are presented here. In addition to the no-

arbitrage theory in full generality, this book also explores models and practical hedging and pricing issues. Fundamentals and Advanced Techniques in Derivatives Hedging further introduces advanced methods in probability and analysis, including Malliavin calculus and the theory of viscosity solutions, as well as the recent theory of stochastic targets and its use in risk management, making it the first textbook covering this topic. Graduate students in applied mathematics with an understanding of probability theory and stochastic calculus will find this book useful to gain a deeper understanding of fundamental concepts and methods in mathematical finance.
