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Nota di contenuto	 Preface; Contents; 1. Introduction; 1.1 Hedging in complete markets; 1.1.1 Black & Scholes analysis and its limitations; 1.1.2 Complete markets; 1.2 Hedging in incomplete markets; 1.2.1 Sources of incompleteness; 1.2.2 Calibration; 1.2.3 Mean-variance hedging; 1.2.4 Utility indi erence pricing and hedging; 1.2.5 Exotic options; 1.2.6 Optimal martingale measures; 1.3 Notes and further reading; 2. Stochastic Calculus; 2.1 Filtrations and martingales; 2.2 Semimartingales and stochastic integrals; 2.3 Kunita-Watanabe decomposition; 2.4 Change of measure; 2.5 Stochastic exponentials 2.6 Notes and further reading3. Arbitrage and Completeness; 3.1 Strategies and arbitrage; 3.2 Complete markets; 3.3 Hidden arbitrage and local times; 3.4 Immediate arbitrage; 3.5 Super-hedging and the optional decomposition theorem; 3.6 Arbitrage via a non-equivalent measure change; 3.7 Notes and further reading; 4. Asset Price Models; 4.1 Exponential Levy processes; 4.1.1 A Levy process primer; 4.1.2 Examples of Levy processes; 4.1.3 Construction of Levy processes by subordination; 4.1.4 Risk-neutral Levy modelling; 4.2.5 Stochastic

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Sommario/riassunto	Valuation and hedging of financial derivatives are intrinsically linked concepts. Choosing appropriate hedging techniques depends on both the type of derivative and assumptions placed on the underlying stochastic process. This volume provides a systematic treatment of hedging in incomplete markets. Mean-variance hedging under the risk- neutral measure is applied in the framework of exponential Levy processes and for derivatives written on defaultable assets. It is discussed how to complete markets based upon stochastic volatility models via trading in both stocks and vanilla options. Exponentia