

1. Record Nr.	UNINA9910453182403321
Titolo	Quantitative analysis in financial markets [[electronic resource] ] : collected papers of the New York University Mathematical Finance Seminar . Volume II // editor, Marco Avellaneda
Pubbl/distr/stampa	Singapore ; ; River Edge, NJ, : World Scientific, 2001
ISBN	1-281-95632-5 9786611956325 981-281-066-8
Descrizione fisica	1 online resource (xviii, 359p. ) : ill
Altri autori (Persone)	AvellanedaMarco <1955->
Disciplina	332.015118
Soggetti	Finance - Mathematical models Economics Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	A collection of papers presented at the weekly Mathematical Finance Seminar at New York University's Washington Square campus and the Courant Institute.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part 1 Estimation and data-driven models: transition densities for interest rate and other nonlinear diffusions, Y. Ait-Sahalia; hidden Markov experts, A. Weigend and S.-M. Shi; when is time continuous?, A. Lo et al; asset prices are Brownian motion - only in business time, H. Geman et al; hedging under stochastic volatility, K. Ronnie Sircar. Part 2 Model calibration and volatility smile: determining volatility surfaces and option values from an implied volatility smile, P. Carr and D. Madan; reconstructing the unknown local volatility function, T. Coleman et al; building a consistent pricing model from observed option prices, J.-P. Laurent and D. Leisen; weighted Monte Carlo -a new technique for calibrating asset-pricing models, M. Avellaneda et al. Part 3 Pricing and risk management: one-and multi-factor valuation of mortgages - computational problems and shortcuts, A. Levin; simulating Bermudan interest-rate derivatives, P. Carr and G. Yang; how to use self-similarities to discover similarities of path-dependent options, A. Lipton; Monte Carlo within a day, J. Cardenas et al; decomposition and search techniques in disjunctive programmes for

portfolio selection, K. Wyatt.

---

**Sommario/riassunto**

This volume contains lectures on quantitative financial analysis in financial markets, delivered at the Seminar in Mathematical Finance at the Courant Institute. The lectures deal with the emerging science of pricing and hedging derivative securities and, more generally, managing financial risk.

---