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Autore	Brandimarte Paolo
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Nota di contenuto	Part I Overview Financial Markets: Functions, Institutions, and Traded Assets Basic Problems in Quantitative Finance -- Part II Fixed-income assets Elementary Theory of Interest Rates Forward Rate Agreements, Interest Rate Futures, and Vanilla Swaps Fixed-Income Markets Interest Rate Risk Management Part III Equity portfolios Decision-Making under Uncertainty: The Static Case Mean Variance Efficient Portfolios Factor Models Equilibrium Models: CAPM and APT -- Part IV Derivatives -- Modeling Dynamic Uncertainty Forward and Futures Contracts Option Pricing: Complete Markets Option Pricing: Incomplete Markets Part V Advanced optimization models Optimization Model Building Optimization Model Solving.
Sommario/riassunto	COVERS THE FUNDAMENTAL TOPICS IN MATHEMATICS, STATISTICS, AND FINANCIAL MANAGEMENT THAT ARE REQUIRED FOR A THOROUGH STUDY OF FINANCIAL MARKETS This comprehensive yet accessible book introduces students to financial markets and delves into more advanced material at a steady pace while providing motivating examples, poignant remarks, counterexamples, ideological clashes, and intuitive traps throughout. Tempered by real-life cases and actual market structures, An Introduction to Financial Markets: A Quantitative Approach accentuates theory through quantitative modeling whenever and wherever necessary. It focuses on the lessons learned from timely

subject matter such as the impact of the recent subprime mortgage storm, the collapse of LTCM, and the harsh criticism on risk management and innovative finance. The book also provides the necessary foundations in stochastic calculus and optimization, alongside financial modeling concepts that are illustrated with relevant and hands-on examples. An Introduction to Financial Markets: A Quantitative Approach starts with a complete overview of the subject matter. It then moves on to sections covering fixed income assets, equity portfolios, derivatives, and advanced optimization models. This book’s balanced and broad view of the state-of-the-art in financial decision-making helps provide readers with all the background and modeling tools needed to make “honest money” and, in the process, to become a sound professional. Stresses that gut feelings are not always sufficient and that “critical thinking” and real world applications are appropriate when dealing with complex social systems involving multiple players with conflicting incentives Features a related website that contains a solution manual for end-of-chapter problems Written in a modular style for tailored classroom use Bridges a gap for business and engineering students who are familiar with the problems involved, but are less familiar with the methodologies needed to make smart decisions An Introduction to Financial Markets: A Quantitative Approach offers a balance between the need to illustrate mathematics in action and the need to understand the real life context. It is an ideal text for a first course in financial markets or investments for business, economic, statistics, engi-neering, decision science, and management science students. PAOLO BRANDIMARTE is Full Professor at the Department of Mathematical Sciences of Politecnico di Torino in Italy, ...