1. Record Nr. UNINA9910139009103321 Autore Ruttiens Alain **Titolo** Mathematics of the financial markets [[electronic resource]]: financial instruments and derivatives modelling, valuation and risk issues // Alain Ruttiens New York,: Wiley, 2013 Pubbl/distr/stampa **ISBN** 1-118-51348-7 1-118-81851-2 1-299-46526-9 1-118-51347-9 Edizione [1st edition] Descrizione fisica 1 online resource (351 p.) The Wiley Finance Series Collana Disciplina 332.1/0973 332.6320151 Soggetti Business enterprises - European Union countries Financial instruments - European Union countries Money market - United States Small business - European Union countries - Auditing Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Mathematics of Financial Markets; Contents; Foreword; Main Notations; Introduction: Part I The Deterministic Environment: 1 Prior to the yield curve: spot and forward rates; 1.1 INTEREST RATES, PRESENT AND FUTURE VALUES, INTEREST COMPOUNDING; 1.1.1 Counting the number of days; 1.2 DISCOUNT FACTORS; 1.3 CONTINUOUS COMPOUNDING AND CONTINUOUS RATES: 1.4 FORWARD RATES: 1.4.1 Generalization: forwards and discount factors; 1.5 THE NO ARBITRAGE CONDITION; FURTHER READING: 2 The term structure or yield curve; 2.1 INTRODUCTION TO THE YIELD CURVE; 2.2 THE YIELD CURVE **COMPONENTS** 2.2.1 The money market side 2.2.2 Capital market side: the case of the risk-free yield curve; 2.2.3 Capital market side: the case of the swap

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## Sommario/riassunto

The book aims to prioritise what needs mastering and presents the content in the most understandable, concise and pedagogical way illustrated by real market examples. Given the variety and the complexity of the materials the book covers, the author sorts through a vast array of topics in a subjective way, relying upon more than twenty years of experience as a market practitioner. The book only requires the reader to be knowledgeable in the basics of algebra and statistics. The Mathematical formulae are only fully proven when the proof brings some useful insight. These formulae are