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Autore	Akers R. Michael
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Mechanisms of Hormone Action; Chapter 3 Functional Development of the Mammary Gland; Onset of Milk Secretion; Lactogenesis; Cellular Differentiation; Cell-Cell Interactions; Role of Milk Removal in Milk Secretion; Milk Component Biosynthesis; Structure and Function at the Secretory Cell Level; Pathways for Protein and Lactose Secretion; Pathways for Lipid Secretion; Secretion of Other Milk Constituents; Chapter 4 Milk Component Biosynthesis
Metabolic Pathways and Precursors for Milk Biosynthesis; Glycolysis, Gluconeogenesis, Krebs Cycle, and Energy Requirements; Lactose Biosynthesis; Milk Fat Biosynthesis; Milk Protein Biosynthesis; Biotechnologies and the Mammary Gland; Chapter 5 Milking Management; Physiological Factors and Machine Milking; Teat Structure; Teat Opening, Teat Canal, and Teat End; Milking Machine Components; Machine Milking and Mastitis Control; Monitoring Udder Health; Chapter 6 Endocrine, Growth Factor, and Neural Regulation of Mammary Development; Steroid Hormones and Mammogenesis; Steroids and Pregnancy
Anterior Pituitary Hormones and Mammogenesis; Other Hormones and Mammogenesis; Local Tissue Mediators of Endocrine Action in Mammogenesis; The Insulin-like Growth Factors Axis; Epidermal Growth Factor Family; Fibroblast Growth Factors; Transforming Growth Factor -; Hepatocyte Growth Factor; Parathyroid Hormone-Related Peptide; Other Stroma-Derived Growth Regulators; Chapter 7
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Nota di contenuto	Structured Finance; Contents; 1 Structured Finance: A Primer; 1.1 Introduction; 1.2 Arbitrage-free valuation and replicating portfolios; 1.3 Replicating portfolios for derivatives; 1.3.1 Linear derivatives; 1.3.2 Nonlinear derivatives; 1.4 No-arbitrage and pricing; 1.4.1 Univariate claims; 1.4.2 Multivariate claims; 1.5 The structuring process; 1.5.1 The basic objects; 1.5.2 Risk factors, moments and dimensions; 1.5.3 Risk management; 1.6 A tale of two bonds; 1.6.1 Contingent coupons and repayment plans; 1.6.2 Exposure to the risky asset; 1.6.3 Exposure to volatility; 1.6.4 Hedging 1.7 Structured finance and object-oriented programmingReferences and further reading; 2 Object-Oriented Programming; 2.1 Introduction; 2.2 What is OOP (object-oriented programming)?; 2.3 Analysis and design; 2.3.1 A simple example; 2.4 Modelling; 2.4.1 The Unified Modelling Language (UML); 2.4.2 An object-oriented programming

language: Java; 2.5 Main ideas about OOP; 2.5.1 Abstraction; 2.5.2 Classes; 2.5.3 Attributes and operations: the Encapsulation principle; 2.5.4 Responsibilities; 2.5.5 Inheritance; 2.5.6 Abstract classes; 2.5.7 Associations; 2.5.8 Message exchanging; 2.5.9 Collections 2.5.10 PolymorphismReferences and further reading; 3 Volatility and Correlation; 3.1 Introduction; 3.2 Volatility and correlation: models and measures; 3.2.1 Implied information; 3.2.2 Parametric models; 3.2.3 Realized (cross)moments; 3.3 Implied probability; 3.4 Volatility measures; 3.4.1 Implied volatility; 3.4.2 Parametric volatility models; 3.4.3 Realized volatility; 3.5 Implied correlation; 3.5.1 Forex markets implied correlation; 3.5.2 Equity "average" implied correlation; 3.5.3 Credit implied correlation; 3.6 Historical correlation; 3.6.1 Multivariate GARCH 3.6.2 Dynamic correlation model3.7 Copula functions; 3.7.1 Copula functions: the basics; 3.7.2 Copula functions: examples; 3.7.3 Copulas and survival copulas; 3.7.4 Copula dualities; 3.8 Conditional probabilities; 3.9 Non-parametric measures; 3.10 Tail dependence; 3.11 Correlation asymmetry; 3.11.1 Correlation asymmetry: finance; 3.11.2 Correlation asymmetry: econometrics; 3.12 Non-exchangeable copulas; 3.13 Estimation issues; 3.14 Levy processes; References and further reading; 4 Cash Flow Design; 4.1 Introduction; 4.2 Types of bonds; 4.2.1 Floaters and reverse floaters 4.2.2 Convertible bonds4.2.3 Equity-linked notes; 4.2.4 Inflation-linked bonds; 4.2.5 Asset-backed securities; 4.3 Time and scheduler issues; 4.3.1 Payment date conventions; 4.3.2 Day count conventions and accrual factors; 4.4 JScheduler; 4.4.1 Date handling in Java; 4.4.2 Data models; 4.4.3 Design patterns; 4.4.4 The Factory Method pattern; 4.5 Cash flow generator design; 4.5.1 UML's activity diagram; 4.5.2 An important guideline to the data model for derivatives: FpML; 4.5.3 UML's sequence diagram; 4.6 The cleg class; References and further reading; 5 Convertible Bonds; 5.1 Introduction 5.2 Object-oriented structuring process

Sommario/riassunto

Structured Finance: The Object Oriented Approach is aimed at both the finance and IT professionals involved in the structured finance business with the intention of sharing common concepts and language within the industry. The financial community (structurers, pricers and risk managers) view structured products as collections of objects under the so-called replicating portfolio paradigm. The IT community use object oriented programming (OOP) techniques to improve the software updating and maintenance process. For them structured products are collections of objects as well. Despite use
