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XVA

*Credit, Funding and Capital
Valuation Adjustments*

ANDREW GREEN

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Jon Gregory



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XVA Andrew Green, 2015-10-23 Thorough accessible coverage of the key issues in XVA. XVA Credit Funding and Capital Valuation Adjustments provides specialists and non specialists alike with an up to date and comprehensive treatment of Credit Debit Funding Capital and Margin Valuation Adjustment CVA DVA FVA KVA and MVA including modelling frameworks as well as broader IT engineering challenges. Written by an industry expert this book navigates you through the complexities of XVA discussing in detail the very latest developments in valuation adjustments including the impact of regulatory capital and margin requirements arising from CCPs and bilateral initial margin. The book presents a unified approach to modelling valuation adjustments including credit risk funding and regulatory effects. The practical implementation of XVA models using Monte Carlo techniques is also central to the book. You will also find thorough coverage of how XVA sensitivities can be accurately measured, the technological challenges presented by XVA, the use of grid computing on CPU and GPU platforms, the management of data and how the regulatory framework introduced under Basel III presents massive implications for the finance industry. Explores how XVA models have developed in the aftermath of the credit crisis. The only text to focus on the XVA adjustments rather than the broader topic of counterparty risk. Covers regulatory change since the credit crisis including Basel III and the impact regulation has had on the pricing of derivatives. Covers the very latest valuation adjustments KVA and MVA. The author is a regular speaker and trainer at industry events including WBS training. Marcus Evans ICBI Infoline and RISK. If you are a quantitative analyst, trader, banking manager, risk manager, finance and audit professional, academic or student looking to expand your knowledge of XVA, this book has you covered.

A Concise Introduction to Financial Derivatives Eben Maré, 2024-11-13 A Concise Introduction to Financial Derivatives seeks to present financial derivatives in a manner that requires minimal mathematical background. Readers will obtain in a quick and engaging way a working knowledge of the field and a collection of practical working insights. The book is ideal for aspiring young practitioners, advanced undergraduates and masters level students who require a concise and practice led introduction to financial derivatives. Features Practical insights and modelling skills. Accessible to practitioners and students without a significant mathematical background. Eben Maré holds responsibility for absolute return portfolio management and has been working in the financial markets for the last 33 years. He has also held senior roles in risk management, treasury, derivatives trading and asset management. He has a PhD in Applied Mathematics and is an associate professor in Mathematics and Applied Mathematics at the University of Pretoria in South Africa. He has wide research interests in financial derivatives, asset management and financial markets.

Interest Rate Modeling Lixin Wu, 2024-08-27 Containing many results that are new or which exist only in recent research articles, this thoroughly revised third edition of Interest Rate Modeling Theory and Practice Third Edition portrays the theory of interest rate modeling as a three dimensional object of finance, mathematics and computation. It introduces all models with financial/economical justifications, develops options along the martingale

approach and handles option evaluations with precise numerical methods Features Presents a complete cycle of model construction and applications showing readers how to build and use models Provides a systematic treatment of intriguing industrial issues such as volatility smiles and correlation adjustments Contains exercise sets and a number of examples with many based on real market data Includes comments on cutting edge research such as volatility smile positive interest rate models and convexity adjustment New to the Third edition Introduction of Fed fund market and Fed fund futures Replacement of the forward looking USD LIBOR by the backward looking SOFR term rates in the market model and the deletion of dual curve market model developed especially for the post crisis derivatives markets New chapters on LIBOR Transition and SOFR Derivatives Markets

Valuation In A World Of Cva, Dva, And Fva : A Tutorial On Debt Securities And Interest Rate Derivatives Donald J Smith, 2017-07-20 CVA DVA and FVA which are the acronyms for credit debit and funding valuation adjustments have become widely used by major banks since the financial crisis This book aims to bridge the gap between the highly complex and mathematical models used by these banks to adjust the value of debt securities and interest rate derivatives and the end users of the valuations for example accountants auditors and analysts The book which is essentially a tutorial demonstrates the types of models that are used using binomial trees that are featured in the CFA fixed income curriculum and allows readers to replicate the examples using a spreadsheet

Research Handbook of Financial Markets Refet S. Gürkaynak, Jonathan H. Wright, 2023-05-09 The Research Handbook of Financial Markets carefully discusses the histories and current states of the most important financial markets and institutions as well as explicitly underscoring open questions that need study By describing the institutional structure of different markets and highlighting recent changes within them it accurately highlights their evolving nature

The xVA Challenge Jon Gregory, 2020-07-07 A thoroughly updated and expanded edition of the xVA challenge The period since the global financial crisis has seen a major re appraisal of derivatives valuation generally expressed in the form of valuation adjustments xVAs The quantification of xVA is now seen as fundamental to derivatives pricing and valuation The xVA topic has been complicated and further broadened by accounting standards and regulation All users of derivatives need to have a good understanding of the implications of xVA The pricing and valuation of the different xVA terms has become a much studied topic and many aspects are in constant debate both in industry and academia Discussing counterparty credit risk in detail including the many risk mitigants and how this leads to the different xVA terms Explains why banks have undertaken a dramatic reappraisal of the assumptions they make when pricing valuing and managing derivatives Covers what the industry generally means by xVA and how it is used by banks financial institutions and end users of derivatives Explains all of the underlying regulatory capital e g SA CCR SA CVA and liquidity requirements NSFR and LCR and their impact on xVA Underscores why banks have realised the significant impact that funding costs collateral effects and capital charges have on valuation Explains how the evolution of accounting standards to cover CVA DVA FVA and potentially other valuation

adjustments Explains all of the valuation adjustments CVA DVA FVA ColVA MVA and KVA in detail and how they fit together Covers quantification of xVA terms by discussing modelling and implementation aspects Taking into account the nature of the underlying market dynamics and new regulatory environment this book brings readers up to speed on the latest developments on the topic

The xVA Challenge Jon Gregory, 2015-09-24 A detailed expert driven guide to today's major financial point of interest The xVA Challenge Counterparty Credit Risk Funding Collateral and Capital is a practical guide from one of the leading and most influential credit practitioners Jon Gregory Focusing on practical methods this informative guide includes discussion around the latest regulatory requirements market practice and academic thinking Beginning with a look at the emergence of counterparty risk during the recent global financial crisis the discussion delves into the quantification of firm wide credit exposure and risk mitigation methods such as netting and collateral It also discusses thoroughly the xVA terms notably CVA DVA FVA ColVA and KVA and their interactions and overlaps The discussion of other aspects such as wrong way risks hedging stress testing and xVA management within a financial institution are covered The extensive coverage and detailed treatment of what has become an urgent topic makes this book an invaluable reference for any practitioner policy maker or student Counterparty credit risk and related aspects such as funding collateral and capital have become key issues in recent years now generally characterized by the term xVA This book provides practical in depth guidance toward all aspects of xVA management Market practice around counterparty credit risk and credit and debit value adjustment CVA and DVA The latest regulatory developments including Basel III capital requirements central clearing and mandatory collateral requirements The impact of accounting requirements such as IFRS 13 Recent thinking on the applications of funding collateral and capital adjustments FVA ColVA and KVA The sudden realization of extensive counterparty risks has severely compromised the health of global financial markets It's now a major point of action for all financial institutions which have realized the growing importance of consistent treatment of collateral funding and capital alongside counterparty risk The xVA Challenge Counterparty Credit Risk Funding Collateral and Capital provides expert perspective and real world guidance for today's institutions

A Practical Approach to Xva Tsuchiya Osamu, 2019-06-30 The 2008 financial crisis shook the financial derivatives market to its core revealing a failure to fully price the cost of doing business then As a response to this and to cope with regulatory demands for massively increased capital and other measures with funding cost the pre 2008 concept of Credit Valuation Adjustment CVA has evolved into the far more complex hybrid Cross Valuation Adjustment XVA This book presents a clear and concise framework and provides key considerations for the computation of myriad adjustments to the price of financial derivatives to fully reflect costs XVA has been of great interest recently due to heavy funding costs FVA initial margin MVA and capital requirements KVA required to sustain a derivatives business since 2008 in addition to the traditional concepts of cost from counterparty default or credit deterioration CVA and its mirror image the cost of one's own default DVA The book takes a practitioner's perspective on the above concepts and

then provides a framework to implement such adjustments in practice Models are presented too taking note of what is computationally feasible in light of portfolios typical of investment banks and the different instruments associated with these portfolios

Capital Valuation Adjustment and Funding Valuation Adjustment Claudio Albanese, 2016 In the aftermath of the 2007 global financial crisis banks started reflecting into derivative pricing the cost of capital and collateral funding through XVA metrics XVA is a catch all acronym whereby X is replaced by a letter such as C for credit D for debt F for funding K for capital and so on and VA stands for valuation adjustment This behaviour is at odds with economies where markets for contingent claims are complete whereby trades clear at fair valuations and the costs for capital and collateral are both irrelevant to investment decisions In this paper we set forth a mathematical formalism for derivative portfolio management in incomplete markets for banks A particular emphasis is given to the problem of finding optimal strategies for retained earnings which ensure a sustainable dividend policy

Counterparty Credit Risk and Credit Value Adjustment Jon Gregory, 2012-10-15 A practical guide to counterparty risk management and credit value adjustment from a leading credit practitioner Please note that this second edition of Counterparty Credit Risk and Credit Value Adjustment has now been superseded by an updated version entitled The XVA Challenge Counterparty Credit Risk Funding Collateral and Capital Since the collapse of Lehman Brothers and the resultant realization of extensive counterparty risk across the global financial markets the subject of counterparty risk has become an unavoidable issue for every financial institution This book explains the emergence of counterparty risk and how financial institutions are developing capabilities for valuing it It also covers portfolio management and hedging of credit value adjustment debit value adjustment and wrong way counterparty risks In addition the book addresses the design and benefits of central clearing a recent development in attempts to control the rapid growth of counterparty risk This uniquely practical resource serves as an invaluable guide for market practitioners policy makers academics and students

[A Practical Approach to XVA](#) Osamu Tsuchiya, 2019-05-21 The 2008 financial crisis shook the financial derivatives market to its core revealing a failure to fully price the cost of doing business then As a response to this and to cope with regulatory demands for massively increased capital and other measures with funding cost the pre 2008 concept of Credit Valuation Adjustment CVA has evolved into the far more complex hybrid Cross Valuation Adjustment XVA This book presents a clear and concise framework and provides key considerations for the computation of myriad adjustments to the price of financial derivatives to fully reflect costs XVA has been of great interest recently due to heavy funding costs FVA initial margin MVA and capital requirements KVA required to sustain a derivatives business since 2008 in addition to the traditional concepts of cost from counterparty default or credit deterioration CVA and its mirror image the cost of one own s default DVA The book takes a practitioner s perspective on the above concepts and then provides a framework to implement such adjustments in practice Models are presented too taking note of what is computationally feasible in light of portfolios typical of investment banks and the different instruments associated with these portfolios

Landmarks in xVA Chris Kenyon, Andrew Green, 2016 The new challenges of FVA DVA and CVA means that trading behaviour and the nature of trades need to be adapted to these valuation adjustments Editors Chris Kenyon and Andrew Green gather together classic papers on these controversial pricing adjustments from the seminal work by Hull and White on FVA to the latest developments with MVA and pricing empowering you to become familiar with the evolving debate These perennial pieces are placed beside newer work on regulation and accounting providing access to the most traditional and the most cutting edge work in this area in one volume Resumen de editor KVA Andrew David Green, 2014 Credit CVA Debit DVA and Funding Valuation Adjustments FVA are now familiar valuation adjustments made to the value of a portfolio of derivatives to account for credit risks and funding costs However recent changes in the regulatory regime and the increases in regulatory capital requirements has led many banks to include the cost of capital in derivative pricing This paper formalises the addition of cost of capital by extending the Burgard Kjaer 2013 semi replication approach to CVA and FVA to include an additional capital term Capital Valuation Adjustment KVA The utilization of the capital for funding purposes is also considered The use of the semi replication approach means that the exhibity around the treatment of self default is carried over into this analysis The paper further considers the practical calculation of KVA with reference to the Basel II BCBS 128 2006 and Basel III BCBS 189 2011 capital regimes and their implementation via CRD IV EU 2013b EU 2013a The paper also assesses how KVA may be hedged given that any hedging transactions themselves lead to regulatory capital requirements and hence capital costs Finally a number of numerical examples are presented to gauge the cost impact of KVA on vanilla derivative products *Uncollateralised Interest Rate Swap xVA*. Ryan McCrickerd, 2016 Derivative valuation adjustments xVA have been an evolving topic over the past decade now giving us a rich theory of what was traditionally referred to as the relatively opaque credit spread imposed by banks As independent risk advisors we are regularly positioned between clients and their banks considering the impacts of both parties xVA when entering into and terminating positions This paper documents our implementation of xVA modelling at the time of writing specifically for the derivatives which our clients trade the most uncollateralised interest rate swaps It is also one of the first open demonstrations of an independent party modelling banks xVA at levels actually observed by them We focus on the most significant credit CVA funding FVA and capital KVA valuation adjustments Our full modelling framework and its calibration are described and examples are given for swaps under the Standardised Approach SA CCR capital framework effective 1 January 2017 Damodaran on Valuation Aswath Damodaran, 1994-04-13 Damondaran on Valuation will not only convince you of the vitality of the many valuation models available to you it will help ensure that you develop the acumen needed to select the right model for any valuation scenario Written by a gifted teacher and respected valuation authority Damodaran on Valuation offers systematic examination of the three basic approaches to valuation discounted cash flow valuation relative valuation and contingent claim valuation and the various models within these broad categories Using numerous real world examples involving both US and

International firms the book illuminates the purpose of each particular model its advantages and limitations the step by step process involved in putting the model to work and the kinds of firms to which it is best applied Among the tools presented are designed to Estimate the cost of equity including the capital asset pricing model and arbitrage pricing model Estimate growth rates with coverage of how to arrive at a weighted average of growth rates by blending three separate approaches Value equity focusing on the Gordon Growth Model and the two and three stage dividend discount model Measure free cash flow to equity cash flows that are carefully delineated from the dividends of most firms Value firms including free cash flow to firm models which are especially suited to highly leveraged firms Estimate the value of assets by looking at the pricing of comparable assets with insight into the use and misuse of price earning and price book value ratios and underutilized price to sales ratios Measure the value of assets that share option characteristics including a comparative look at the classic Black Scholes and simpler binomial models Supported by an optional IBM compatible disk which consists of spreadsheet programs designed to help users apply the models highlighted in the book Damodaran on Valuation provides practitioners involved in securities analysis portfolio management M A and corporate finance with the knowledge they need to value any asset

Adding Stochastic Credit and Funding to XVA Calculations Claudio Moni, 2015 It is widely accepted that the correlations among credit spreads funding spreads and market risk factors e g interest rates can have a material impact on XVAs In this paper we study how this impact can be estimated without running a full blown XVA model in which counterparty default probabilities and funding spreads are simulated alongside the market risk factors that determine the future exposures This problem can arise in different contexts e g pricing model validation reserve calculations or prudent valuation adjustments if the primary XVA framework used for valuations does not account for these correlations We show that these effects can be estimated very accurately using the XVA values and sensitivities produced by an XVA model with deterministic or rather independent credit and funding spreads and combining them with certain product independent covariance terms computed using a separate model capable of simulating default intensities and funding spreads together with the relevant market risk factors

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