

X-Value Adjustments (XVA)

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graph TD; A[X-Value Adjustments (XVA)] --> B[Credit Valuation Adjustment]; A --> C[Funding Valuation Adjustment]; A --> D[Capital Valuation Adjustment];
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Credit Valuation
Adjustment

Funding Valuation
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Capital Valuation
Adjustment

Xva Funding Capital Valuation Adjustments

Andrew Green



Xva Funding Capital Valuation Adjustments:

XVA Andrew Green, 2015-12-14 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 ll 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 re 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

Modern Credit Risk Management

Panayiota Koulafetis, 2017-02-08 This book is a practical guide to the latest risk management tools and techniques applied in the market to assess and manage credit risks at bank sovereign corporate and structured finance level It strongly advocates the importance of sound credit risk management and how this can be achieved with prudent origination credit risk policies approval process setting of meaningful limits and underwriting criteria The book discusses the various quantitative techniques used to assess and manage credit risk including methods to estimate default probabilities credit value at risk approaches and credit exposure analysis Basel I II and III are covered as are the true meaning of credit ratings how these are assigned their limitations the drivers of downgrades and upgrades and how credit ratings should be used in practise is explained Modern Credit Risk Management not only discusses credit risk from a quantitative angle but further explains how important the qualitative and legal assessment is Credit risk transfer and mitigation techniques and tools are explained as are netting ISDA master agreements centralised counterparty clearing margin collateral overcollateralization covenants and events of default Credit derivatives are also explained as are Total Return Swaps TRS Credit Linked Notes CLN and Credit Default Swaps CDS Furthermore the author discusses what we have learned from the financial crisis of 2007 and sovereign crisis of 2010 and how credit risk management has evolved Finally the book examines the new regulatory environment

looking beyond Basel to the European Union EU Capital Requirements Regulation and Directive CRR CRD IV the Dodd Frank Wall Street Reform and Consumer Protection Act This book is a fully up to date resource for credit risk practitioners and academics everywhere outlining the latest best practices and providing both quantitative and qualitative insights It will prove a must have reference for the field

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 CoVA 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

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

How to Value a Bank Alessandro Santoni, Federico Salerno, 2023-11-29 This book gives an overview of the most common techniques used by analysts and experts to assess and value banks in all phases of a Bank s life from licensing to resolution These include licensing procedures going concern market valuation techniques liquidation and resolution methodologies The author sheds light on financial institutions reporting and financial statements and explains how to interpret the data Special

attention is given to the different valuation approaches for financial institutions ranging from the basic PE and PBV methodologies to the more sophisticated ones such Discount cash flow DCF Dividend discount model DDM excess return models EVA and their variant the warranted equity value WEV method The authors also illustrate how to build a sum of the parts model SOTP and how to treat capital in the process as well as developing a bottom up approach for the cost of equity The book provides numerous real world examples which will hopefully help practitioners build their own MS Excel models Furthermore this publication investigates some of the critical aspects of banking M to inform the choice of resolution tools and the extent of any bail in of liabilities and to determine whether any creditors would have been better off had the bank gone into insolvency Special attention is given to the valuation of non performing loans NPLs and financial assets focusing on some operational aspects of winding down a bank s loan and trading book portfolio

Interest Rate Modeling Lixin Wu, 2019-03-04 Containing many results that are new or which exist only in recent research articles Interest Rate Modeling Theory and Practice 2nd 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 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 2nd edition volatility smile modeling a new paradigm for inflation derivatives modeling an extended market model for credit derivatives a dual curved model for the post crisis interest rate derivatives markets and an elegant framework for the xVA

From Probability to Finance Ying Jiao, 2020-03-20 This volume presents a collection of lecture notes of mini courses taught at BICMR Summer School of Financial Mathematics from May 29 to June 9 2017 Each chapter is self contained and corresponds to one mini course which deals with a distinguished topic such as branching processes enlargement of filtrations Hawkes processes copula models and valuation adjustment analysis whereas the global topics cover a wide range of advanced subjects in financial mathematics from both theoretical and practical points of view The authors include world leading specialists in the domain and also young active researchers This book will be helpful for students and those who work on probability and financial mathematics

Effective Product Control Peter Nash, 2017-12-04 Improve the Effectiveness of your Product Control Function Effective Product Control is a detailed how to guide covering everything you need to know about the function Considered essential reading for New controllers entering the profession Auditors and regulators reviewing product control Established controllers wanting a refresher on the latest skills and core controls within the industry Encompassing both a technical skills primer and key insights into core controls used to mitigate major risks emanating from trading desks you will get expert advice on practical

topics such as The key IFRS and U S GAAP accounting standards for a trading desk How to approach the pricing of a financial instrument Market risk and how is it quantified The controls necessary for a trading desk Rogue trading and how it can be detected Valuation adjustments and why they are necessary How the prices used to value a trading portfolio are independently verified The financial accounting entries used to record financial instruments in the balance sheet and profit loss statement Financial reporting and how the results of a trading desk are presented How a new financial product can be introduced in a controlled manner Complete with a wealth of insightful graphs illustrations and real world examples to enliven the covered material the dependable answers you need are in Effective Product Control The xVA Challenge Jon Gregory,2015-10-26 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

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 **Practical Approach To Xva, A: The Evolution Of Derivatives Valuation After The Financial Crisis** Osamu Tsuchiya,2019-05-16 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 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 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 **Efficient XVA Management** Chris Kenyon,2014 Banks must manage their trading books not just value them Pricing includes valuation adjustments collectively known as XVA at least credit funding capital and tax so management must also include XVA In trading book management we focus on pricing hedging and allocation of prices or hedging costs to desks on an individual trade basis We show how to combine three technical elements to radically simplify XVA management both in terms of the calculations and the implementation of the calculations The three technical elements are trade level regression analytic computation of sensitivities and global conditioning All three are required to obtain the radical efficiency gains and implementation simplification Moreover many of the calculations are inherently parallel and suitable for GPU implementation The resulting methodology for XVA management

is sufficiently general that we can cover pricing first and second order sensitivities and exact trade level allocation of pricing and sensitivities within the same framework Managing incremental changes to portfolios exactly is also radically simplified

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

The XVA of Financial Derivatives: CVA, DVA and FVA Explained Dongsheng Lu, 2016-01-01 This latest addition to the Financial Engineering Explained series focuses on the new standards for derivatives valuation namely pricing and risk management taking into account counterparty risk and the XVA s Credit Funding and Debt value adjustments

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 exibility 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

Corrected XVA Modelling Framework and Formulae for KVA and MVA. Antti Vauhkonen, 2018 We discuss and clarify the XVA modelling framework specified in the paper MVA by replication and regression Risk Magazine May 2015 for including bilateral credit risk and funding costs in derivative pricing and in doing so we rectify two key errors in the valuation adjustments accounting for costs of capital and initial margin and present corrected formulae for KVA and MVA

Counterparty Credit Risk and Credit Value Adjustment Jon Gregory, 2012-09-07 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.

The Missing Term in the FVA Calculation Andrew Kirk, 2019. In the aftermath of the Global Financial Crisis, many large banks moved to include Funding Value Adjustment (FVA) in their derivative valuations despite controversy in the industry over its appropriateness. This paper examines the mathematical derivations of FVA inclusive valuation formulas in an influential paper advocating FVA inclusion and identifies an implicit assumption that is unrealistic yet crucial and hence creates problems for the derivation. We examine what happens when the assumption is abandoned and find that it can still be theoretically sound to include FVA in valuations and to use formulas derived in the paper subject to some modifications in either the discount rates used or in what other valuation adjustments are included. Different types of FVA calculation are appropriate when the valuation is from a shareholder only perspective from when it is from a whole of bank perspective, i.e. including the interests of debtholders. It is also observed that a bank that uses what are here termed full FVA inclusive valuations may find that in cases where the FVA is an asset, prudential supervisors require them to deduct that asset from measures of prudential capital such as CET1.

Valuation in a World of CVA, DVA, and FVA Donald J. Smith, 2017-07-10. The monograph addresses a canonical problem in linear water wave theory through the development of detailed asymptotic analysis of contour integrals in the complex plane. It is anticipated that the methodology developed in the monograph will have applicati

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