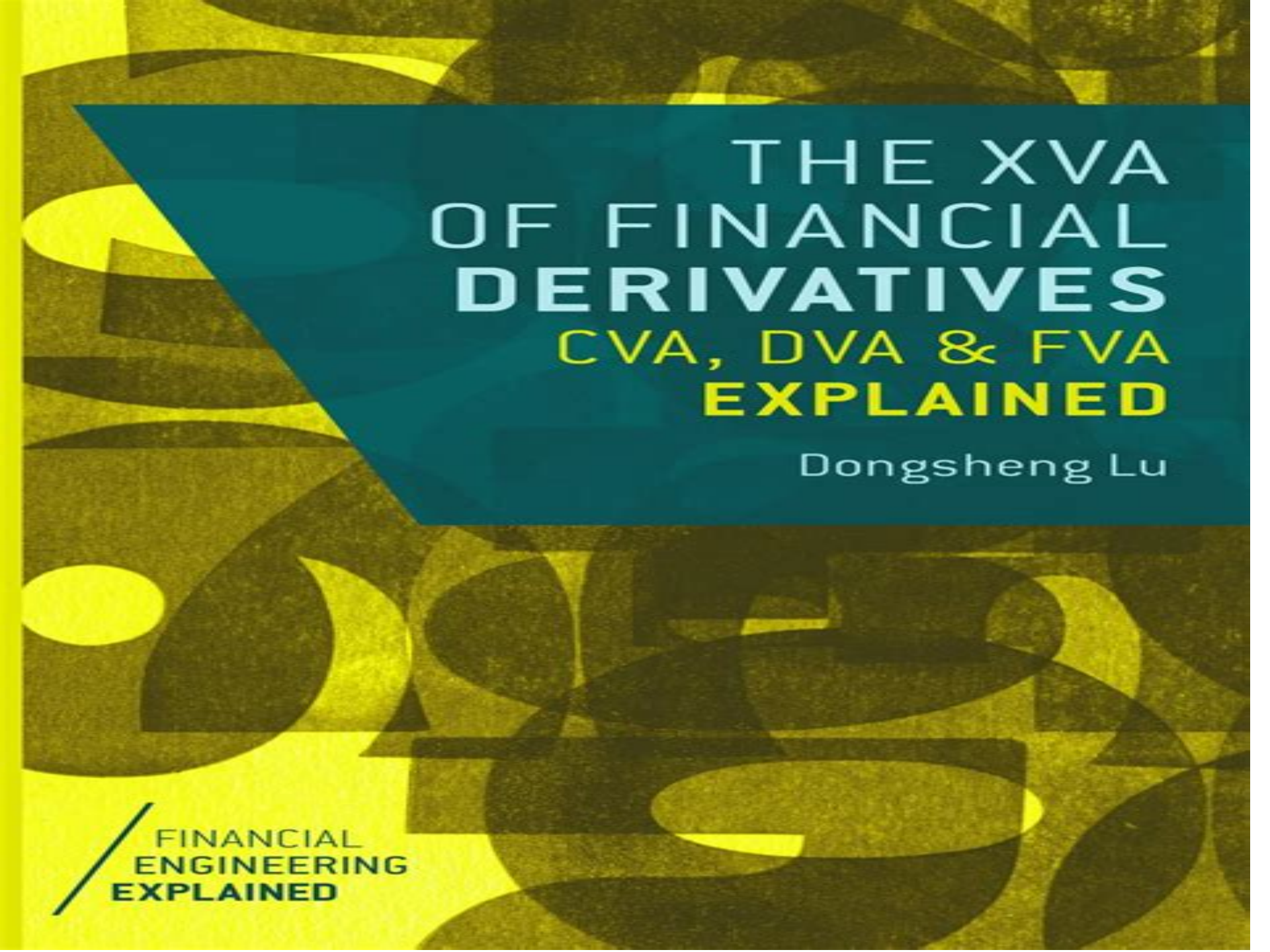




THE XVA OF FINANCIAL DERIVATIVES

CVA, DVA & FVA
EXPLAINED

Dongsheng Lu



FINANCIAL
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The Xva Of Financial Derivatives Cva Dva And Fva Explained

Johan Gunnesson



The Xva Of Financial Derivatives Cva Dva And Fva Explained:

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 **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 **Bank Asset-Liability Management** Fidelio Tata, 2025-01-31 This book provides a practical and intuitive view of how European banks manage asset liability mismatch risk from both a practitioner and supervisory perspective After a prolonged period of zero interest rate policy ZIRP by central banks around the world the period from Q1 2022 to Q2 2023 has seen the largest fastest and most widespread increase in interest rates since the 1980s with 1 year euro yields rising by more than 400 bp The recent market turmoil has exposed the increased vulnerability of banks particularly those with significant exposures to long term fixed income assets fueled by shorter term less stable funding This challenging interest rate environment reinforces the strategic importance of asset liability management ALM for banks Indeed a bank s survival now depends more than ever on prudent ALM This book introduces the most common components of interest rate risk management within a bank s asset liability management framework including the concepts of economic value of equity EVE net interest income NII funds transfer pricing FTP and the replicating model In addition to bridging the gap between widely used general interest rate risk management techniques in the fixed income area and what is best practice in European banks the book also provides an update on recent changes in the regulatory framework for European banks management of interest rate risk in the banking book IRRBB including new EBA guidelines It also covers the latest developments in interest rate risk management such as rapidly changing interest rates and modeling bank customers behavior *Capital Market Finance* Patrice Poncet, Roland Portait, 2022-11-07 This book offers a comprehensive and coherent presentation of almost all aspects

of Capital Market Finance providing hands on knowledge of advanced tools from mathematical finance in a practical setting Filling the gap between traditional finance textbooks which tend to avoid advanced mathematical techniques used by professionals and books in mathematical finance which are often more focused on mathematical refinements than on practical uses this book employs advanced mathematical techniques to cover a broad range of key topics in capital markets In particular it covers all primitive assets equities interest and exchange rates indices bank loans most vanilla and exotic derivatives swaps futures options hybrids and credit derivatives portfolio theory and management and risk assessment and hedging of individual positions as well as portfolios Throughout the authors emphasize the methodological aspects and probabilistic foundations of financial asset valuation risk assessment and measurement Background in financial mathematics particularly stochastic calculus is provided as needed and over 200 fully worked numerical examples illustrate the theory Based on the authors renowned master s degree courses this book is written for students in business and finance as well as practitioners in quantitative finance Apart from an undergraduate level knowledge of calculus linear algebra and probability the book is self contained with no prior knowledge of market finance required *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 *Numerical Analysis and Its Applications* Ivan Dimov, István

Faragó, Lubin Vulkov, 2017-04-11 This book constitutes thoroughly revised selected papers of the 6th International Conference on Numerical Analysis and Its Applications NAA 2016 held in Lozenetz Bulgaria in June 2016 The 90 revised papers presented were carefully reviewed and selected from 98 submissions The conference offers a wide range of the following topics Numerical Modeling Numerical Stochastics Numerical Approx imation and Computational Geometry Numerical Linear Algebra and Numer ical Solution of Transcendental Equations Numerical Methods for Differential Equations High Performance Scientific Computing and also special topics such as Novel methods in computational finance based on the FP7 Marie Curie Action Project Multi ITN STRIKE Novel Methods in Compu tational Finance Grant Agreement Number 304617 Advanced numerical and applied studies of fractional differential equations *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

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International GAAP 2018 Ernst & Young LLP, 2017-12-19 The essential guide to practical IFRS implementation updated for 2018 International GAAP 2018 is the definitive reference for IFRS application around the world Written by the expert practitioners at Ernst Young this invaluable resource provides both interpretation and practical implementation guidance for anyone applying auditing interpreting regulating studying or teaching IFRS Specific instruction written from a global perspective provides clarity on complex issues and coverage of the latest changes ensures that you will apply the most current standards appropriately and effectively Worked examples provide answers at a glance and hundreds of illustrations from major companies financial reports demonstrate IFRS implementation and bring technical concepts to life Countries around the world have adopted the International Financial Reporting Standards IFRS and in the US foreign private issuers are allowed to report under IFRS without reconciling to US GAAP This book provides the essential information practitioners need to correctly understand and apply these standards using a clear consistent approach to resolving global financial reporting issues under IFRS in real world scenarios Updated and expanded for 2018 this new edition allows you to Get up to date on the newest amendments and interpretations issued in the past year Examine implementation issues caused by

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The xVA Challenge Jon Gregory, 2015-09-22 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 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

Understanding CVA, DVA, and FVA Donald J. Smith, 2015 Financial statements of major money center commercial banks increasingly include reference to a credit valuation adjustment CVA debit or debt valuation adjustment DVA and funding valuation adjustment FVA This article explains the concepts behind CVA DVA and FVA using examples of interest rate swap valuation A binomial forward rate tree model is used to get the value of the swap assuming no default The CVA the credit risk of the counterparty and the DVA the credit risk of the entity itself depend on assumptions about the probability of default the recovery rate and the expected exposure which depends of projected values and settlement payments for the swap The FVA arises when an uncollateralized swap is hedged with a collateralized or centrally cleared contract In this version of the paper two methods to calculate FVA are shown both using the same assumptions about the credit risk parameters for the bank

XVA Desks - A New Era for Risk Management I. Ruiz, 2014-01-14 Written by a practitioner with years working in CVA FVA and DVA this is a thorough practical guide to a topic at the very core of the derivatives industry It takes readers through all aspects of counterparty credit risk management and the business cycle of CVA DVA and FVA focusing on risk management pricing considerations and implementation

Modern Derivatives Pricing and Credit Exposure Analysis Roland Lichters, Roland Stamm, Donal Gallagher, 2015-11-15 This book provides a comprehensive guide for modern derivatives pricing and credit analysis Written to provide sound theoretical detail but practical implication it provides readers with everything they need to know to price modern financial derivatives and analyze the credit exposure of a financial instrument in today s markets

Innovations in Derivatives Markets Kathrin Glau, Zorana Grbac, Matthias Scherer, Rudi Zagst, 2016-12-02 This book presents 20 peer reviewed chapters on current aspects of derivatives markets and derivative pricing The contributions written by leading researchers in the field as well as experienced authors from the financial industry present the state of the art in Modeling counterparty credit risk credit valuation adjustment debit valuation adjustment funding valuation adjustment and wrong way risk Pricing and hedging in fixed income markets and multi curve interest rate modeling Recent developments concerning contingent convertible bonds the measuring of basis spreads and the modeling of implied correlations The recent financial crisis has cast tremendous doubts on the classical view on derivative pricing Now counterparty credit risk and liquidity issues are integral aspects of a prudent valuation procedure and the reference interest rates are represented by a multitude of curves according to their different periods and maturities A panel discussion included in the book featuring Damiano Brigo Christian Fries John Hull

and Daniel Sommer on the foundations of modeling and pricing in the presence of counterparty credit risk provides intriguing insights on the debate

Valuation in a World of Cva and Dva Donald Smith, 2015-08-12 Credit risk models invariably are mathematical and can be dauntingly so Nevertheless an understanding of the impact of credit risk on the valuation of debt securities and derivatives is essential to investment analysis and risk management The financial crisis that started in 2007 exposed the importance of counterparty credit risk nowadays CVA and DVA credit valuation and debit or debt valuation adjustments respectively are part of the vocabulary of risk analysis in the post Lehman world This tutorial introduces the key parameters that drive CVA and DVA the expected exposure to default loss the probability of default and the recovery rate and demonstrates the impact of changes in credit risk on values of various types of debt securities and interest rate derivatives in a simplified format using diagrams and tables albeit with some mathematics

Derivative Pricing and Credit Exposures Modelling Lilan Li, 2021-10-31 ABOUT THE BOOK It is a practical guide to introduce Derivative pricing models and Counterparty Credit Exposure modelling XVA has been a hot topic in the industry for the last decade and probably more years to come It has gathered many powerful brains into these subjects within Quantitative Finance This book opens up the subject for non mathematical savvy people Many simple examples are used to explain concepts like Randomness of asset behavior Derivatives Counterparty Credit Risk Monte Carlo method and most importantly XVAs With the help of graphs and Python prototypes the technical complexity will be lower and the subject much easier to understand ABOUT THE AUTHOR Lilan LI is a seasoned quantitative Analyst who has more than 10 years experience in quantitative arena across Trading Structuring Risk management and Model Validation Her latest endeavor is Counterparty credit Exposure XVA Modelling Before joining Nordea Lilan had been working for JP Morgan Barclays and UBS London as a Quantitative Developer as well as a Model Validator As an experienced industrial practitioner Lilan holds a Diplôme d'Ingénieur from INSA de Lyon after graduating from Fudan University in Shanghai TABLE OF CONTENT Preface Structure of the Book Acknowledgements 1 Introduction to Quantitative Finance 1 1 Basic Economic and Pricing Concepts 1 2 Counterparty Credit Risk CCR and XVA 1 3 Random Behavior of the Asset 1 4 Stochastic Dynamics 2 Risk Factor Modelling and Methodology 2 1 Modelling Framework Architecture 2 2 Interest Rate Swap IRS 2 3 Random Number 2 4 Risk factor Modelling 2 5 Correlation between Risk Factors 2 6 Conclusion 3 Monte Carlo Simulation 3 1 History 3 2 Monte Carlo in Finance 3 3 Monte Carlo Algorithm Step by Step 3 4 Python Prototype 3 5 Issues challenges 3 6 Conclusion 4 Counterparty Credit Exposure 4 1 Quantify the Exposure 4 2 Counterparty Exposure in Python Prototype 4 3 Different Exposure Measurements 4 4 Graphic analysis of the Results 4 5 Conclusion 5 XVAs family 5 1 Credit Valuation Adjustment CVA 5 2 Debit Valuation Adjustment DVA 5 3 Funding and FVA 5 4 Other XVA Topics 5 5 Assumptions 5 6 Conclusion

CVA and FVA to Derivatives Trades Collateralized by Cash Lixin Wu, 2015 In this article we consider replication pricing of derivatives that are partially collateralized by cash We let the issuer replicate the derivatives payout using shares and cash

and let the buyer replicate the the loss given the counterparty default using credit default swaps The costs of funding for replication and collateral posting are accounted for in the pricing process A partial differential equation PDE for the derivatives price is established and its solution is provided in a Feynman Kac formula which decomposes the derivatives value into the risk free value of the derivative plus credit valuation adjustment CVA and funding valuation adjustment FVA For most derivatives we show that CVAs can be evaluated analytically or semi analytically while FVAs as well as the derivatives values can be solved recursively through numerical procedures due to their interdependence In numerical demonstrations continuous and discrete margin revisions are considered respectively for an equity call option and a vanilla interest rate swap

A Practical Approach to CVA, DVA and FVA. Chia Chiang Tan, 2014 The post 2008 landscape in derivatives pricing has mushroomed in complexity with dealers recognising that pricing can no longer be pursued in an idealised world divorced of funding and credit considerations Many academics and practitioners have attempted to design a new framework either via a de minimis extension of the status quo that achieves coherence or via an overarching framework for pricing in a general world Some authors believe that the complexity of a fully integrated approach is necessary in light of the real world environment we operate in Whilst we believe that such a framework is useful as an ultimate fallback to aid understanding and analysis of an institution's positions a substantial simplification where possible is necessary for widespread adoption of CVA DVA and FVA calculations as regards a majority of an institution's positions against a significant proportion of its counterparties In this paper we consider the circumstances where such simplification is warranted

Recovering from Derivatives Funding Johan Gunnesson, 2014 The inclusion of DVA in the fair value of derivative transactions has now become standard accounting practice in most parts of the world Furthermore some sophisticated banks are including an FVA Funding Valuation Adjustment but since DVA can be interpreted as a funding benefit the oft debated issue regarding a possible double counting of funding benefits arises with little consensus as to its resolution One possibility is to price the derivative by replication by constructing a portfolio that completely hedges all risks present in the instrument guaranteeing a consistent inclusion of costs and benefits However as has recently been noted DVA is at least partially unhedgeable having no exact market hedge Furthermore current frameworks shed little light on the controversial question raised by Hull 2012 of whether the effect a derivative has on the riskiness of an institution's debt should be taken into account when calculating FVA In this paper we propose a solution to these two problems by identifying an instrument a fictitious CDS written on the hedging counterparty which although not available in the market for active hedging is implicitly contained in any given derivatives transaction This allows us to show that the hedger's unhedged jump to default risk has despite not being actively managed a well defined value associated to a funding benefit Carrying out the replication including such a CDS we obtain a price for the derivative consisting of its collateralized equivalent a CVA contingent on the survival of the hedger a contingent DVA and an FVA coupled to the price via the hedger's short term bond CDS basis The resulting

funding cost is non zero but substantially smaller than what is obtained in alternative approaches due to the effect the derivative has on the recovery of the hedger's liabilities Also price agreement is possible for two sophisticated counterparties entering a deal if their bond CDS bases obey a certain relationship similar to what was first obtained by Morini and Prampolini 2010

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