

# Binomial Tree Model For Convertible Bond Pricing Within

**Qiang Liu**

[The Handbook of Convertible Bonds](#) Jan De Spiegeleer, Wim Schoutens, 2011-07-07 This is a complete guide to the pricing and risk management of convertible bond portfolios. Convertible bonds can be complex because they have both equity and debt like features and new market entrants will usually find that they have either a knowledge of fixed income mathematics or of equity derivatives and therefore have no idea how to incorporate credit and equity together into their existing pricing tools. Part I of the book covers the impact that the 2008 credit crunch has had on the markets, it then shows how to build up a convertible bond and introduces the reader to the traditional convertible vocabulary of yield to put, premium, conversion ratio, delta, gamma, vega and parity. The market of stock borrowing and lending will also be covered in detail. Using an intuitive approach based on the Jensen inequality, the authors will also show the advantages of using a hybrid to add value - pre 2008, many investors labelled convertible bonds as 'investing with no downside', there are of course plenty of 2008 examples to prove that they were wrong. The authors then go onto give a complete explanation of the different features that can be embedded in convertible bond. Part II shows readers how to price convertibles. It covers the different parameters used in valuation models: credit spreads, volatility, interest rates and borrow fees and Maturity. Part III covers investment strategies for equity, fixed income and hedge fund investors and includes dynamic hedging and convertible arbitrage. Part IV explains the all important risk management part of the process in detail. This is a highly practical book, all products priced are real world examples and numerical examples are not limited to hypothetical convertibles. It is a must read for anyone wanting to safely get into this highly liquid, high return market.

*Are Convertible Bonds Underpriced?* Manuel Ammann, 2016 We investigate the pricing performance of three convertible bond pricing models on the French convertible bond market using daily market prices. We examine a component model separating the convertible bond into a bond and option component, a method based on the Margrabe model for pricing exchange options, and a binomial-tree model with exogenous credit risk. All three models are found to deliver theoretical values for the analyzed convertible bonds that tend to be higher than the observed market prices. The prices obtained by the binomial-tree model are nearest to market prices and the mispricing is no longer statistically significant for the majority of

bonds in our sample. For all models, the difference between market and model prices is greater for out-of-the money convertibles than for at- or in-the-money convertibles.

Convertible Bond Valuation and Pricing Marc A. Shivers,2003

**Pricing Convertible Bonds Using Binomial Trees** Leonie Ecker,2016

*Approximating the Embedded M Out of N Day Soft-Call Option of a Convertible Bond* Qiang Liu,2008 A convertible bond (CB) with a right of m out of n day provisional call or soft-call becomes callable given that the underlying stock closes above a pre-set trigger price for any m or more days over the n consecutive trading days up to the current day. It is computationally challenge to value the contribution of this embedded option to the price of CB. This paper proposes an approximation based on the idea of an auxiliary reversed binomial (ARB) tree, and shows that the approach can be efficiently implemented under the Cox-Ross-Rubinstein parameterization. Two important insights emerge from ARB. First, the convertible bond is unconditionally callable at higher stock prices, but uniformly not callable at lower prices. Second, the effect of the soft-call is rather localized around the trigger price. Surprisingly, the simple One-Touch, or one out of one, approximation is found to yield CB prices that are very close to those from ARB, even though ARB is found to a better approximation in almost every aspect. Further numerical results suggest that in order to generate well-behaved CB prices, cautions need to be taken while designing the terms of soft-call. Being independent of the finite difference pricing grid, the proposed ARB tree can also be used in association with the tree method or Monte Carlo simulation, and could in principle be applicable to exotic derivatives with similar embedded options.

**Valuation of Callable Convertible Bonds Using Binomial Trees Model with Default Risk, Convertible Hedging and Arbitrage, Duration and Convexity** Fahad Aldossary,2018

*Binomial Models in Finance* John van der Hoek,Robert J Elliott,2006-04-18 This book describes the modelling of prices of financial assets in a simple discrete time, discrete state, binomial framework. By avoiding the mathematical technicalities of continuous time, we have made the material accessible to a wide audience. Some of the developments and formulae appear here for the first time in book form. We hope our book will appeal to various audiences. These include MBA students, upper level undergraduate students, beginning doctoral students, quantitative analysts at a basic level and senior executives who seek material on new developments in finance at an accessible level. The basic building block in our book is the one-step binomial model where a known price today can take one of two possible values at a future time, which might, for example, be tomorrow, or next month, or next year. In this simple situation "risk neutral pricing" can be defined and the model can be applied to price forward contracts, exchange rate contracts and interest rate derivatives. In a few places we discuss multinomial models to explain the notions of incomplete markets and how pricing can be viewed in such a context, where unique prices are no longer available. The simple one-period framework can then be extended to multi-

period models. The Cox-Ross-Rubinstein approximation to the Black-Scholes option pricing formula is an immediate consequence. American, barrier and exotic options can all be discussed and priced using binomial models. More precise modelling issues such as implied volatility trees and implied binomial trees are treated, as well as interest rate models like those due to Ho and Lee; and Black, Derman and Toy.

Pricing Interest Rate Risk Derivatives Using Binomial Trees with MATLAB Alexander Esse, 2018-06-14 Seminar paper from the year 2017 in the subject Business economics - Investment and Finance, grade: 1,00, University of Tübingen, language: English, abstract: In this assignment we approximate Oldrich Vasicek's (1977) term structure model with a binomial approach and show that it is convenient to use a recombining binomial tree to value interest rate derivatives in the Vasicek model. First, we illustrate that our applied binomial approximations converge to the dynamic continuous-time Vasicek model with an increasing number of time steps (subperiods). Furthermore, we apply the binomial approach to value a Discount Bond, Coupon Bond and a Futures Contract on both a Discount and Coupon Bond. The resulting approximations will be compared to the respective analytical solution, which we use as a benchmark. Thirdly, we determine the fair value of both an European and American Call and Put on a Discount Bond and Coupon Bond, respectively. We demonstrate that our estimated binomial prices converge with an increasing number of time steps. Moreover, we analyze both the behaviour of a Straddle on a Discount Bond and the Early Exercise Premium of the considered American Options as a function of spot interest rates. We obtain all results shown in this report from the software Matlab. Hence, the submitted m-files should be taken as a reference for a better understanding of the calculation procedures described in this report (Relevant Code is depicted in the Appendices). Furthermore, to reduce computational effort and required time to run our code we apply a joint calculation of specific approximations rather than run a code individually for each Task. This is mainly because some specific securities and interest rate derivatives require the same underlying and identical matrices of the interest rates and transition probabilities from the binomial trees for the approximation procedure. This approach is suitable because we apply the identical number of subperiods for specific Tasks and, thus, for the respective securities and or derivatives.

**Risk Equilibrium Binomial Model for Convertible Bonds Pricing** Leon Richard, 2007 After analyzing of two types of convertible bonds pricing models, Structural Approach and Reduced-Form Approach, and indicating their respective limitations, a new model, Risk Equilibrium Binomial Model, is proposed by first introducing risk adjustment equation through continuous time, then discretizing it into binomial model, and finally combining with Theory of Corporation Market Value Allocation. The new model conquers the limitations of the above two classes of approach. In this approach, the two most innovative ideas are the definition of Risk Burden Ratio and Theory of Corporation Market Value Allocation, which are the cornerstone of this model. When the model is used to analyze convertible, some important conclusions are reached. Although in the paper the model is proposed to price convertible bonds, it can price other derivatives after very little modification. To

prove correction and flexibility of this approach, in the final section, after simplified to price stock option, the model reaches the identical result as Black-Scholes formula's.

*Callable Convertible Bond Valuation Framework and VIC Case Binh Dao, 2014* Convertible bond, a hybrid instrument that offers the holders both fixed income of straight debt and capital gain of equity via attachment of the right to convert to common shares of issuing companies, has recently been issued in mass by important Vietnamese banks and groups. To account for this growing trend, this paper aims to help market participants to gain more insight on the products as well as the possible methods of pricing. The authors first describe the characteristics and risks of convertible bond in general and callable convertible bond in particular. Secondly, due to the fact that Vietnam convertible market is very much in its early stage, analytical tools are vital to assist participants in the estimation of fair value for the bonds. Therefore, the authors propose the use of three approaches with varying degree of difficulty, efficiency, etc. to price a typical callable convertible bond, together with the case application of a famous Vietnamese enterprise, Vincom Joint Stock Company. They are Lattice models including Binomial Tree and Trinomial Tree, Black-Scholes based Component model and Monte Carlo simulation.

Pricing Convertible Bonds with Monte Carlo Simulation Christian Wilde, 2008 This paper proposes a pricing model that values convertible bonds with Monte Carlo simulation. The optimal exercise boundaries for the embedded American-style conversion, call, and put options are inferred from the conditional expected value of continuation which is obtained by least-squares regressions in combination with a backward-induction procedure. The simulation-based pricing method is more flexible than traditional valuation approaches based on finite differences and binomial trees. It allows to better model the dynamics of the underlying state variables and to account for the specifications of the instrument, such as the path dependencies inherent in many callable convertible bonds. Credit risk is accounted for by directly modelling the possibility of default.

**Implementing a Trinomial Convertible Bond Pricing Model** Stuart McCrary, 2015 This manuscript is program documentation for a model to create a trinomial stock price tree with mean reversion to price convertible bonds and convertible preferred stock.

*Mastering Python for Finance* James Ma Weiming, 2015-04-29 If you are an undergraduate or graduate student, a beginner to algorithmic development and research, or a software developer in the financial industry who is interested in using Python for quantitative methods in finance, this is the book for you. It would be helpful to have a bit of familiarity with basic Python usage, but no prior experience is required.

**Debt Markets and Investments** H. Kent Baker, Greg Filbeck, Andrew C. Spieler, 2019-08-08 Debt Markets and Investments provides an overview of the dynamic world of markets, products, valuation, and analysis of fixed income and related securities. Experts in the field, practitioners and academics, offer both diverse and in-depth insights into basic

concepts and their application to increasingly intricate and real-world situations. This volume spans the entire spectrum from theoretical to practical, while attempting to offer a useful balance of detailed and user-friendly coverage. The volume begins with the basics of debt markets and investments, including basic bond terminology and market sectors. Among the topics covered are the relationship between fixed income and other asset classes as well as the differences in fundamental risk. Particular emphasis is given to interest rate risk as well as credit risks as well as those associated with inflation, liquidity, reinvestment, and ESG. Authors then turn to market sectors, including government debt, municipal bonds, the markets for corporate bonds, and developments in securitized debt markets along with derivatives and private debt markets. The third section focuses on models of yield curves, interest rates, and swaps, including opportunities for arbitrage. The next two sections focus on bond and securitized products, from sovereign debt and mutual funds focused on bonds to how securitization has increased liquidity through such innovations as mortgaged-and asset- backed securities, as well as collateralized debt-, bond-, and loan obligations. Authors next discuss various methods of valuation of bonds and securities, including the use of options and derivatives. The volume concludes with discussions of how debt can play a role in financial strategies and portfolio creation. Readers interested in a broad survey will benefit as will those looking for more in-depth presentations of specific areas within this field of study. In summary, the book provides a fresh look at this intriguing and dynamic but often complex subject.

*Advanced Fixed Income Analysis* Moorad Choudhry, Michele Lizzio, 2015-08-28 Each new chapter of the Second Edition covers an aspect of the fixed income market that has become relevant to investors but is not covered at an advanced level in existing textbooks. This is material that is pertinent to the investment decisions but is not freely available to those not originating the products. Professor Choudhry's method is to place ideas into contexts in order to keep them from becoming too theoretical. While the level of mathematical sophistication is both high and specialized, he includes a brief introduction to the key mathematical concepts. This is a book on the financial markets, not mathematics, and he provides few derivations and fewer proofs. He draws on both his personal experience as well as his own research to bring together subjects of practical importance to bond market investors and analysts. - Presents practitioner-level theories and applications, never available in textbooks - Focuses on financial markets, not mathematics - Covers relative value investing, returns analysis, and risk estimation

Bond and Money Markets Moorad Choudhry, 2003-07-04 The Bond and Money Markets is an invaluable reference to all aspects of fixed income markets and instruments. It is highly regarded as an introduction and an advanced text for professionals and graduate students. Features comprehensive coverage of: \* Government and Corporate bonds, Eurobonds, callable bonds, convertibles \* Asset-backed bonds including mortgages and CDOs \* Derivative instruments including futures, swaps, options, structured products \* Interest-rate risk, duration analysis, convexity, and the convexity bias \* The money

markets, repo markets, basis trading, and asset/liability management \* Term structure models, estimating and interpreting the yield curve \* Portfolio management and strategies, total return framework, constructing bond indices\* A stand alone reference book on interest rate swaps, the money markets, financial market mathematics, interest-rate futures and technical analysis \* Includes introductory coverage of very specialised topics (for which one previously required several texts) such as VaR, Asset & liability management and credit derivatives \* Combines accessible style with advanced level topics

**Corporate Bond Markets** Moorad Choudhry, 2011-12-14 Moorad continues to demonstrate his financial expertise, and shows us why he is one of the best-selling authors in our industry today. - Eric Subliskey, Vice President, Short-Term Fixed Income JPMorgan Securities inc., New York An invaluable reference work for anyone connected with the corporate debt markets, be they issuer, investor or trader. Dr Choudhry writes in his trademark accessible style and provides the reader with a wealth of data and insight on the latest market products and techniques. Highly-recommended. - Ketul Tanna, Assistant Vice President, Market Risk Management JPMorgan Chase Bank, London The Predominant fixed income author is back with this updated version of Corporate Bond Markets. A Comprehensive work on fixed income products and applications, this book is a valuable reference text and teaching tool. Why go anywhere else for bond market information? - Rod Pienaar, Research Partner YieldCurve.com

The Handbook of Convertible Bonds Jan De Spiegeleer, Wim Schoutens, 2011-03-14 This is a complete guide to the pricing and risk management of convertible bond portfolios. Convertible bonds can be complex because they have both equity and debt like features and new market entrants will usually find that they have either a knowledge of fixed income mathematics or of equity derivatives and therefore have no idea how to incorporate credit and equity together into their existing pricing tools. Part I of the book covers the impact that the 2008 credit crunch has had on the markets, it then shows how to build up a convertible bond and introduces the reader to the traditional convertible vocabulary of yield to put, premium, conversion ratio, delta, gamma, vega and parity. The market of stock borrowing and lending will also be covered in detail. Using an intuitive approach based on the Jensen inequality, the authors will also show the advantages of using a hybrid to add value - pre 2008, many investors labelled convertible bonds as 'investing with no downside', there are of course plenty of 2008 examples to prove that they were wrong. The authors then go on to give a complete explanation of the different features that can be embedded in convertible bond. Part II shows readers how to price convertibles. It covers the different parameters used in valuation models: credit spreads, volatility, interest rates and borrow fees and Maturity. Part III covers investment strategies for equity, fixed income and hedge fund investors and includes dynamic hedging and convertible arbitrage. Part IV explains the all important risk management part of the process in detail. This is a highly practical book, all products priced are real world examples and numerical examples are not limited to hypothetical convertibles. It is a must read for anyone wanting to safely get into this highly liquid, high return market.

**Bond Evaluation, Selection, and Management** R. Stafford Johnson, 2009-02-09 Bond Evaluation, Selection, and Management synthesizes fundamental and advanced topics in the field, offering comprehensive coverage of bond and debt management. This text provides readers with the basics needed to understand advanced strategies, and explanations of cutting edge advanced topics. Focusing on concepts, models, and numerical examples, readers are provided with the tools they need to select, evaluate, and manage bonds. Provides a comprehensive exposition of bond and debt management. Covers both the fundamental and advanced topics in the field, including bond derivatives. Focuses on concepts, models, and numerical examples. Reinforces important concepts through review questions, web exercises, and practice problems in each chapter.

**Fixed Income Markets** Moorad Choudhry, David Moskovic, Max Wong, 2014-06-17 A comprehensive, in-depth look at global debt capital markets in the post-crisis world Fully updated with comprehensive coverage of the post-crisis debt markets and their impact on key industry issues, Fixed Income Markets: Management, Trading, and Hedging, Second Edition offers insights into derivative pricing, cross-currency hedging, and new liquidity legislation. Written by Choudhry, Moskovic, and Wong, Fixed Income Markets is an indispensable read for anyone working in bond markets, interest-rate markets, and credit derivatives markets looking to better understand today's debt markets. This acclaimed book takes a unique look into the leading practices in bond markets as well as post-credit-crunch impacts on pricing that are rarely captured in textbooks. The new edition provides expanded coverage on a wide range of topics within hedging, derivatives, bonds, rebalancing, and global debt capital markets. New topics include: Dynamic hedging practices and cross-currency hedging Collateralized and uncollateralized derivatives, and their impact on valuation Callable bonds, pricing, trading, and regulatory aspects related to liquidity Rebalancing as a method for capturing contingencies and other complex imbedded risks As a bonus, the book includes reference information for statistical concepts and fixed income pricing, as well as a full glossary and index. Written in Choudhry's usual accessible style, Fixed Income Markets is a comprehensive and in-depth account of the global debt capital markets in today's post-crisis world.

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