

# Derivation of CAPM

$$\frac{\partial \sigma(\tilde{R}_p)}{\partial a} = \frac{1}{2} [a^2 \sigma_i^2 + (1-a)^2 \sigma_m^2 + 2a(1-a)\sigma_{im}]^{-1/2} = [2a\sigma_i^2 - 2\sigma_m^2 + 2a\sigma_m^2 + 2\sigma_{im} - 4a\sigma_{im}]$$

- Evaluating the two equations where  $a=0$ :

$$\left. \frac{\partial E(\tilde{R}_p)}{\partial a} \right|_{a=0} = E(\tilde{R}_i) - E(\tilde{R}_m)$$

$$\left. \frac{\partial \sigma(\tilde{R}_p)}{\partial a} \right|_{a=0} = \frac{1}{2} (\sigma_m^2)^{-1/2} (-2\sigma_m^2 + 2\sigma_{im}) = \frac{\sigma_{im} - \sigma_m^2}{\sigma_m}$$

- The slope of the risk-return trade-off:  $\left. \frac{\partial E(\tilde{R}_p)/\partial a}{\partial \sigma(\tilde{R}_p)/\partial a} \right|_{a=0} = \frac{E(\tilde{R}_i) - E(\tilde{R}_m)}{(\sigma_{im} - \sigma_m^2)/\sigma_m}$

- Recall that the slope of the market line is:

$$\frac{E(\tilde{R}_m) - R_f}{\sigma_m} \quad ;$$

- Equating the above two slopes:

$$\frac{E(\tilde{R}_i) - R_f}{\sigma_m} = \frac{E(\tilde{R}_i) - E(\tilde{R}_m)}{(\sigma_{im} - \sigma_m^2)/\sigma_m}$$

$$E(\tilde{R}_i) = R_f + [E(\tilde{R}_m) - R_f] \frac{\sigma_{im}}{\sigma_m^2}$$

# Derivation Of Capm

**Cheng-Few Lee, John Lee**



## **Derivation Of Capm:**

**The Capital Asset Pricing Model in the 21st Century** Haim Levy, 2011-10-30 The Capital Asset Pricing Model CAPM and the mean variance M V rule which are based on classic expected utility theory have been heavily criticized theoretically and empirically The advent of behavioral economics prospect theory and other psychology minded approaches in finance challenges the rational investor model from which CAPM and M V derive Haim Levy argues that the tension between the classic financial models and behavioral economics approaches is more apparent than real This book aims to relax the tension between the two paradigms Specifically Professor Levy shows that although behavioral economics contradicts aspects of expected utility theory CAPM and M V are intact in both expected utility theory and cumulative prospect theory frameworks There is furthermore no evidence to reject CAPM empirically when ex ante parameters are employed Professionals may thus comfortably teach and use CAPM and behavioral economics or cumulative prospect theory as coexisting paradigms

*Modern Portfolio Theory* Jack Clark Francis, Dongcheol Kim, 2013-01-18 A thorough guide covering Modern Portfolio Theory as well as the recent developments surrounding it Modern portfolio theory MPT which originated with Harry Markowitz's seminal paper Portfolio Selection in 1952 has stood the test of time and continues to be the intellectual foundation for real world portfolio management This book presents a comprehensive picture of MPT in a manner that can be effectively used by financial practitioners and understood by students Modern Portfolio Theory provides a summary of the important findings from all of the financial research done since MPT was created and presents all the MPT formulas and models using one consistent set of mathematical symbols Opening with an informative introduction to the concepts of probability and utility theory it quickly moves on to discuss Markowitz's seminal work on the topic with a thorough explanation of the underlying mathematics Analyzes portfolios of all sizes and types shows how the advanced findings and formulas are derived and offers a concise and comprehensive review of MPT literature Addresses logical extensions to Markowitz's work including the Capital Asset Pricing Model Arbitrage Pricing Theory portfolio ranking models and performance attribution Considers stock market developments like decimalization high frequency trading and algorithmic trading and reveals how they align with MPT Companion Website contains Excel spreadsheets that allow you to compute and graph Markowitz efficient frontiers with riskless and risky assets If you want to gain a complete understanding of modern portfolio theory this is the book you need to read

**The Capital Asset Pricing Model ,      Continuous-Time Asset Pricing Theory** Robert A. Jarrow, 2018-06-04 Yielding new insights into important market phenomena like asset price bubbles and trading constraints this is the first textbook to present asset pricing theory using the martingale approach and all of its extensions Since the 1970s asset pricing theory has been studied refined and extended and many different approaches can be used to present this material Existing PhD level books on this topic are aimed at either economics and business school students or mathematics students While the first mostly ignore much of the research done in mathematical

finance the second emphasizes mathematical finance but does not focus on the topics of most relevance to economics and business school students These topics are derivatives pricing and hedging the Black Scholes Merton the Heath Jarrow Morton and the reduced form credit risk models multiple factor models characterizing systematic risk portfolio optimization market efficiency and equilibrium capital asset and consumption pricing models This book fills this gap presenting the relevant topics from mathematical finance but aimed at Economics and Business School students with strong mathematical backgrounds

**Portfolio Theory and Risk Management** Maciej J. Capiński, Ekkehard Kopp, 2014-08-07 With its emphasis on examples exercises and calculations this book suits advanced undergraduates as well as postgraduates and practitioners It provides a clear treatment of the scope and limitations of mean variance portfolio theory and introduces popular modern risk measures Proofs are given in detail assuming only modest mathematical background but with attention to clarity and rigour The discussion of VaR and its more robust generalizations such as AVaR brings recent developments in risk measures within range of some undergraduate courses and includes a novel discussion of reducing VaR and AVaR by means of hedging techniques A moderate pace careful motivation and more than 70 exercises give students confidence in handling risk assessments in modern finance Solutions and additional materials for instructors are available at [www.cambridge.org/9781107003675](http://www.cambridge.org/9781107003675)

**Corporate Finance And Strategy: An Active Learning Approach** Cheng Few Lee, John C Lee, Michael Lee, 2022-06-02 Corporate finance is concerned with how to make capital investment decisions capital budgeting how to finance company activities including new investments and how to make dividend payment decisions This book will lecture on important topics for corporate finance which will cover methods theory and policy decisions The topics which will be addressed in this book include how streams of cash flows are valued how financial managers evaluate investment opportunities how financial statements are used to evaluate a company's financial condition and its market value how a manager chooses between mutually exclusive opportunities and how they evaluate different types of investment This book will also discuss the treatment of risk when evaluating a project and the required returns on a project Alternative sources of funds used to finance new projects which include internal and external sources of funds will be theoretically and empirically demonstrated Lastly long term financial planning will be discussed

**Modern Portfolio Theory and Investment Analysis** Edwin J. Elton, Martin J. Gruber, Stephen J. Brown, William N. Goetzmann, 2009-11-16 An update of a classic book in the field Modern Portfolio Theory examines the characteristics and analysis of individual securities as well as the theory and practice of optimally combining securities into portfolios It stresses the economic intuition behind the subject matter while presenting advanced concepts of investment analysis and portfolio management Readers will also discover the strengths and weaknesses of modern portfolio theory as well as the latest breakthroughs

**Handbook Of Financial Econometrics, Mathematics, Statistics, And Machine Learning (In 4 Volumes)** Cheng Few Lee, John C Lee, 2020-07-30 This four volume handbook covers important concepts and tools used in the fields of financial econometrics mathematics statistics and

machine learning Econometric methods have been applied in asset pricing corporate finance international finance options and futures risk management and in stress testing for financial institutions This handbook discusses a variety of econometric methods including single equation multiple regression simultaneous equation regression and panel data analysis among others It also covers statistical distributions such as the binomial and log normal distributions in light of their applications to portfolio theory and asset management in addition to their use in research regarding options and futures contracts In both theory and methodology we need to rely upon mathematics which includes linear algebra geometry differential equations Stochastic differential equation Ito calculus optimization constrained optimization and others These forms of mathematics have been used to derive capital market line security market line capital asset pricing model option pricing model portfolio analysis and others In recent times an increased importance has been given to computer technology in financial research Different computer languages and programming techniques are important tools for empirical research in finance Hence simulation machine learning big data and financial payments are explored in this handbook Led by Distinguished Professor Cheng Few Lee from Rutgers University this multi volume work integrates theoretical methodological and practical issues based on his years of academic and industry experience Security Analysis, Portfolio Management, And Financial Derivatives Cheng Few Lee, Joseph Finnerty, John C Lee, Alice C Lee, Donald Wort, 2012-10-01 Security Analysis Portfolio Management and Financial Derivatives integrates the many topics of modern investment analysis It provides a balanced presentation of theories institutions markets academic research and practical applications and presents both basic concepts and advanced principles Topic coverage is especially broad in analyzing securities the authors look at stocks and bonds options futures foreign exchange and international securities The discussion of financial derivatives includes detailed analyses of options futures option pricing models and hedging strategies A unique chapter on market indices teaches students the basics of index information calculation and usage and illustrates the important roles that these indices play in model formation performance evaluation investment strategy and hedging techniques Complete sections on program trading portfolio insurance duration and bond immunization performance measurements and the timing of stock selection provide real world applications of investment theory In addition special topics including equity risk premia simultaneous equation approach for security valuation and It s calculus are also included for advanced students and researchers **Handbook of Quantitative Finance and Risk Management** Cheng-Few Lee, John Lee, 2010-06-14 Quantitative finance is a combination of economics accounting statistics econometrics mathematics stochastic process and computer science and technology Increasingly the tools of financial analysis are being applied to assess monitor and mitigate risk especially in the context of globalization market volatility and economic crisis This two volume handbook comprised of over 100 chapters is the most comprehensive resource in the field to date integrating the most current theory methodology policy and practical applications Showcasing contributions from an international array of experts the Handbook of Quantitative Finance and Risk

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**Lectures on Macroeconomics** Olivier Blanchard, Stanley Fischer, 1989-03-21 The main purpose of Lectures on Macroeconomics is to characterize and explain fluctuations in output unemployment and movement in prices Lectures on Macroeconomics provides the first comprehensive description and evaluation of macroeconomic theory in many years While the authors perspective is broad they clearly state their assessment of what is important and what is not as they present the essence of macroeconomic theory today The main purpose of Lectures on Macroeconomics is to characterize and explain fluctuations in output unemployment and movement in prices The most important fact of modern economic history is persistent long term growth but as the book makes clear this growth is far from steady The authors analyze and explore these fluctuations Topics include consumption and investment the Overlapping Generations Model money multiple equilibria bubbles and stability the role of nominal rigidities competitive equilibrium business cycles nominal rigidities and economic fluctuations goods labor and credit markets and monetary and fiscal policy issues Each of chapters 2 through 9 discusses models appropriate to the topic Chapter 10 then draws on the previous chapters asks which models are the workhorses of macroeconomics and sets the models out in convenient form A concluding chapter analyzes the goals of economic policy monetary policy fiscal policy and dynamic inconsistency Written as a text for graduate students with some background in macroeconomics statistics and econometrics Lectures on Macroeconomics also presents topics in a self contained way that makes it a suitable reference for professional economists

**Introduction to the Economics and Mathematics of Financial Markets** Jaks Cvitanic, Fernando Zapatero, 2004-02-27 An innovative textbook for use in advanced undergraduate and graduate courses accessible to students in financial mathematics financial engineering and economics Introduction to the Economics and Mathematics of Financial Markets fills the longstanding need for an accessible yet serious textbook treatment of financial economics The book provides a rigorous overview of the subject while its flexible presentation makes it suitable for use with different levels of undergraduate and graduate students Each chapter presents mathematical models of financial problems at three different degrees of sophistication single period multi period and continuous time The single period and multi period models require only basic calculus and an introductory probability statistics course while an advanced undergraduate course in probability is helpful in understanding the continuous time models In this way the material is given complete coverage at

different levels the less advanced student can stop before the more sophisticated mathematics and still be able to grasp the general principles of financial economics The book is divided into three parts The first part provides an introduction to basic securities and financial market organization the concept of interest rates the main mathematical models and quantitative ways to measure risks and rewards The second part treats option pricing and hedging here and throughout the book the authors emphasize the Martingale or probabilistic approach Finally the third part examines equilibrium models a subject often neglected by other texts in financial mathematics but included here because of the qualitative insight it offers into the behavior of market participants and pricing

*Advanced Asset Pricing Theory* Chenghu Ma, 2011 This book provides a broad introduction to modern asset pricing theory The theory is self contained and unified in presentation Both the no arbitrage and the general equilibrium approaches of asset pricing theory are treated coherently within the general equilibrium framework It fills a gap in the body of literature on asset pricing for being both advanced and comprehensive The absence of arbitrage opportunities represents a necessary condition for equilibrium in the financial markets However the absence of arbitrage is not a sufficient condition for establishing equilibrium These interrelationships are overlooked by the proponents of the no arbitrage approach to asset pricing This book also tackles recent advancement on inversion problems raised in asset pricing theory which include the information role of financial options and the information content of term structure of interest rates and interest rates contingent claims The inclusion of the proofs and derivations to enhance the transparency of the underlying arguments and conditions for the validity of the economic theory made it an ideal advanced textbook or reference book for graduate students specializing in financial economics and quantitative finance The detailed explanations will capture the interest of the curious reader and it is complete enough to provide the necessary background material needed to delve deeper into the subject and explore the research literature Postgraduate students in economics with a good grasp of calculus linear algebra and probability and statistics will find themselves ready to tackle topics covered in this book They will certainly benefit from the mathematical coverage in stochastic processes and stochastic differential equation with applications in finance Postgraduate students in financial mathematics and financial engineering will also benefit not only from the mathematical tools introduced in this book but also from the economic ideas underpinning the economic modeling of financial markets Both these groups of postgraduate students will learn the economic issues involved in financial modeling The book can be used as an advanced text for Masters and PhD students in all subjects of financial economics financial mathematics mathematical finance and financial engineering It is also an ideal reference for practitioners and researchers in the subjects

[Portfolio Management under Stress](#) Riccardo Rebonato, Alexander Denev, 2013 A rigorous presentation of a novel methodology for asset allocation in financial portfolios under conditions of market distress

*Microscopic Simulation of Financial Markets* Haim Levy, Moshe Levy, Sorin Solomon, 2000-08-02 Microscopic Simulation MS uses a computer to represent and keep track of individual microscopic elements in order to investigate complex systems which are analytically

intractable A methodology that was developed to solve physics problems MS has been used to study the relation between microscopic behavior and macroscopic phenomena in systems ranging from those of atomic particles to cars animals and even humans In finance MS can help explain among other things the effects of various elements of investor behavior on market dynamics and asset pricing It is these issues in particular and the value of an MS approach to finance in general that are the subjects of this book The authors not only put their work in perspective by surveying traditional economic analyses of investor behavior but they also briefly examine the use of MS in fields other than finance Most models in economics and finance assume that investors are rational However experimental studies reveal systematic deviations from rational behavior How can we determine the effect of investors deviations from rational behavior on asset prices and market dynamics By using Microscopic Simulation a methodology originally developed by physicists for the investigation of complex systems the authors are able to relax classical assumptions about investor behavior and to model it as empirically and experimentally observed This rounded and judicious introduction to the application of MS in finance and economics reveals that many of the empirically observed puzzles in finance can be explained by investors quasi rationality Researchers use the book because it models heterogeneous investors a group that has proven difficult to model Being able to predict how people will invest and setting asset prices accordingly is inherently appealing and the combination of computing power and statistical mechanics in this book makes such modeling possible Because many finance researchers have backgrounds in physics the material here is accessible Emphasizes investor behavior in determining asset prices and market dynamics Introduces Microscopic Simulation within a simplified framework Offers ways to model deviations from rational decision making

Essentials of Financial Economics Michael Donadelli, Michele Costola, Ivan Gufler, 2025-04-28 This textbook offers a comprehensive guide to key topics in financial economics seamlessly blending theoretical insights with practical applications It covers essential areas such as portfolio allocation asset pricing empirical finance and behavioral finance providing students with a solid conceptual foundation through a combination of theory and real world examples Core topics include mean variance portfolio theory linear factor models for asset pricing consumption based asset pricing the Black Litterman asset allocation model empirical cross sectional asset pricing and event studies With a strong emphasis on hands on implementation the book integrates programming languages such as MATLAB Python Julia and R enabling students to apply financial models effectively The book begins with a concise and standard review of decision making under uncertainty gradually advancing to topics such as intertemporal consumption choices and their impact on asset prices before concluding with empirical tools for capturing market sentiment By bridging fundamental and advanced finance concepts it equips students with the necessary tools to navigate the financial landscape Theoretical models are presented with transparency avoiding the black box issue by clearly explaining mathematical derivations This structured approach enhances learning and empowers students to utilize the provided code for key financial tasks including portfolio management risk analysis and market sentiment analysis



**Handbook Of Investment Analysis, Portfolio Management, And Financial Derivatives (In 4 Volumes)** Cheng Few Lee, Alice C Lee, John C Lee, 2024-04-08 This four volume handbook covers important topics in the fields of investment analysis portfolio management and financial derivatives Investment analysis papers cover technical analysis fundamental analysis contrarian analysis and dynamic asset allocation Portfolio analysis papers include optimization minimization and other methods which will be used to obtain the optimal weights of portfolio and their applications Mutual fund and hedge fund papers are also included as one of the applications of portfolio analysis in this handbook The topic of financial derivatives which includes futures options swaps and risk management is very important for both academicians and practitioners Papers of financial derivatives in this handbook include i valuation of future contracts and hedge ratio determination ii options valuation hedging and their application in investment analysis and portfolio management and iii theories and applications of risk management Led by worldwide known Distinguished Professor Cheng Few Lee from Rutgers University this multi volume work integrates theoretical methodological and practical issues of investment analysis portfolio management and financial derivatives based on his years of academic and industry experience

**Applications of Spreadsheets in Education** Mark A. Lau, Stephen J. Sugden, 2011-09-20 This e book is devoted to the use of spreadsheets in the service of education in a broad spectrum of disciplines science mathematics engineering business and general education The effort is aimed at collecting the works of prominent researchers and

*The Cost of Capital* Seth Armitage, 2005-03-17 This book provides an answer to the question What does the finance and economics literature say about the determination and estimation of a project's cost of capital Uniquely it reviews both the theory of asset pricing in discrete time and a range of more applied topics which relate to project valuation including the effects of corporate and personal taxes the international dimension estimation of the cost of equity in practice and the cost of capital for regulated utilities It seeks to explain models and arguments in a way which does justice to the reasoning whilst minimising the prior knowledge of finance and maths expected of the reader It acts as a bridge between a general undergraduate or MBA text in finance accounting or economics and the modern theoretical literature on the cost of capital

**A New Model of Capital Asset Prices** James W. Kolari, Wei Liu, Jianhua Z. Huang, 2021-03-01 This book proposes a new capital asset pricing model dubbed the ZCAPM that outperforms other popular models in empirical tests using US stock returns The ZCAPM is derived from Fischer Black's well known zero beta CAPM itself a more general form of the famous capital asset pricing model CAPM by 1990 Nobel Laureate William Sharpe and others It is widely accepted that the CAPM has failed in its theoretical relation between market beta risk and average stock returns as numerous studies have shown that it does not work in the real world with empirical stock return data The upshot of the CAPM's failure is that many new factors have been proposed by researchers However the number of factors proposed by authors has steadily increased into the hundreds over the past three decades This new ZCAPM is a path breaking asset pricing model that is shown to outperform popular models currently in practice in finance

across different test assets and time periods Since asset pricing is central to the field of finance it can be broadly employed across many areas including investment analysis cost of equity analyses valuation corporate decision making pension portfolio management etc The ZCAPM represents a revolution in finance that proves the CAPM as conceived by Sharpe and others is alive and well in a new form and will certainly be of interest to academics researchers students and professionals of finance investing and economics

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