

A Primer For The Mathematics Of Financial Engineering Second Edition

A Primer For The Mathematics Of Financial Engineering Second Edition A Primer for the Mathematics of Financial Engineering Second Edition is an essential resource for students, practitioners, and academics seeking a comprehensive understanding of the mathematical foundations underpinning modern financial engineering. This book offers a detailed exploration of the quantitative techniques used to model, analyze, and manage financial derivatives, risk, and investment strategies. Its second edition refines and expands upon key concepts, making complex mathematical tools accessible and applicable to real-world financial problems. In this article, we delve into the core themes of this influential textbook, emphasizing its significance in the field of financial engineering and how it serves as an invaluable resource for learning and application.

Overview of the Book's Scope and Purpose

Bridging Mathematics and Finance The second edition of A Primer for the Mathematics of Financial Engineering aims to bridge the gap between abstract mathematical theories and practical financial applications. It introduces readers to the mathematical language necessary to model financial markets, price derivatives, and manage financial risk effectively.

Target Audience

This book caters to: Graduate students in financial engineering, applied mathematics, and quantitative finance Practitioners seeking to deepen their understanding of the mathematical techniques used in finance Academics interested in the pedagogical presentation of financial mathematics

Key Features of the Second Edition

- Updated content reflecting recent developments in financial mathematics
- Enhanced explanations of stochastic calculus, martingales, and measure theory
- Numerical methods and computational techniques for pricing and risk management
- Real-world examples and exercises to reinforce understanding

2 Foundational Mathematical Concepts in Financial Engineering

Probability Theory and Stochastic Processes

At the heart of financial modeling lies probability theory, which enables the quantification of uncertainty and randomness inherent in markets.

Random Variables: Modeling asset returns and price movements¹.

Stochastic Processes: Describing the evolution of asset prices over time², including processes like Brownian motion and Lévy processes

Martingales: Fundamental in risk-neutral valuation, representing fair game³ processes

Calculus and Differential Equations

Calculus provides the tools to model continuous-time phenomena and derive pricing formulas.

Itô Calculus: Extends traditional calculus to stochastic processes, essential for¹ modeling asset dynamics

Partial Differential Equations (PDEs): Used in deriving option pricing models², like Black-Scholes

Measure Theory and Probability Measures

A deeper understanding of measure theory underpins the concept of equivalent martingale measures, crucial for risk-neutral valuation.

Core Topics Covered in the Book

Financial Derivatives and Pricing Models

The book explores various derivatives, including options, futures, and swaps, alongside mathematical models for their valuation.

Black-Scholes Model: Derivation and assumptions, closed-form solutions for¹ European options

Binomial and Trinomial Models: Discrete-time models providing intuition and² computational

methods Advanced Models: Stochastic volatility, jump processes, and interest rate models³. Hedging and Risk Management Effective risk management relies on understanding how to hedge financial positions. ³ Delta Hedging: Creating a riskless portfolio to replicate option payoffs¹. Greeks: Sensitivities of option prices to underlying parameters (delta, gamma,² vega, etc.) Dynamic Hedging Strategies: Adjusting hedge positions over time to mitigate³. risk Numerical Methods and Computational Techniques The second edition emphasizes computational approaches essential for practical applications. Finite Difference Methods: Numerical solutions to PDEs in option pricing¹. Monte Carlo Simulation: Estimating prices and risk metrics for complex². derivatives Tree-Based Methods: Efficient algorithms for binomial and trinomial models³. Interest Rate and Credit Risk Modeling Modeling the term structure of interest rates and credit risk is vital for fixed income and credit derivatives. Term Structure Models: Vasicek, Cox-Ingersoll-Ross (CIR), and Heath-Jarrow-1. Morton (HJM) Credit Risk Models: Structural and reduced-form approaches, default probabilities². Why the Second Edition Stands Out Enhanced Clarity and Pedagogical Approach The authors have refined explanations, added illustrative examples, and included exercises that deepen understanding. Integration of Theory and Practice The book balances rigorous mathematical theory with practical applications, preparing readers for industry challenges. Updated Content Reflecting Modern Financial Markets Incorporating recent advances such as machine learning techniques and complex derivatives expands the book's relevance. ⁴ Applications in the Real World Quantitative Trading and Asset Management Financial engineers utilize the models and methods discussed in the book to develop trading algorithms, optimize portfolios, and manage risk. Regulatory and Risk Compliance Understanding mathematical models aids in meeting regulatory requirements and stress testing financial institutions. Product Development and Innovation The insights from the book support the creation of new financial products tailored to market needs. Conclusion: Making Complex Mathematics Accessible A Primer for the Mathematics of Financial Engineering Second Edition stands as a foundational text that demystifies the complex mathematical structures behind modern finance. Its comprehensive coverage, combined with pedagogical clarity, makes it indispensable for those aiming to excel in the field of financial engineering. Whether you are a student seeking to build a solid theoretical foundation or a practitioner applying quantitative methods in the industry, this book provides the tools and insights necessary to navigate and innovate within the dynamic landscape of financial markets. By mastering the principles outlined in this book, readers can enhance their ability to model financial phenomena accurately, develop effective hedging strategies, and contribute to the advancement of financial technology. As financial markets continue to evolve with new instruments and computational techniques, a strong mathematical foundation remains essential—making this second edition an invaluable resource for the future of financial engineering. Question Answer What are the main topics covered in 'A Primer for the Mathematics of Financial Engineering, Second Edition'? The book covers essential topics such as stochastic processes, options pricing, interest rate models, fixed income securities, and numerical methods used in financial engineering. How does the second edition differ from the first edition of the book? The second edition includes updated mathematical techniques, new chapters on recent financial models, expanded explanations, and additional examples to reflect advances in financial engineering. ⁵ Is this book suitable for beginners in financial engineering? Yes, it is designed as a primer, making complex mathematical concepts accessible to newcomers, though some

prior knowledge of calculus and probability is helpful. Does the book cover computational methods for financial modeling? Yes, it discusses numerical techniques such as finite difference methods, Monte Carlo simulation, and binomial/trinomial trees used in pricing and risk management. Are real-world applications and examples included in the book? Absolutely, the book incorporates numerous practical examples, case studies, and exercises to illustrate theoretical concepts in real financial contexts. Can this book help in understanding derivative pricing models? Yes, it provides foundational knowledge on derivatives, including the Black-Scholes model, and explores various pricing techniques and their mathematical underpinnings. Does the second edition include recent developments in financial mathematics? Yes, it introduces newer models, such as stochastic volatility and interest rate models, reflecting current trends and research in financial engineering. Is prior knowledge of programming necessary to fully understand the concepts in the book? While programming skills are not mandatory, familiarity with computational tools can enhance understanding, especially for implementing numerical methods discussed. How accessible is the mathematical language used in the book? The book aims to be accessible, carefully explaining mathematical notation and concepts, making it suitable for readers with a basic mathematical background. Would this book be useful for preparing for a career in quantitative finance? Yes, it provides a solid mathematical foundation that is essential for roles in quantitative finance, risk management, and financial modeling. A Primer for the Mathematics of Financial Engineering, Second Edition stands as a compelling resource in the realm of quantitative finance, blending rigorous mathematical foundations with practical applications. Authored by Robert L. Koshel, this second edition aims to bridge the gap between theoretical constructs and their real-world deployment in financial markets. As financial engineering continues to evolve amidst increasing complexity and technological advancements, this book offers a comprehensive guide for students, practitioners, and academics seeking a solid grounding in the mathematical tools underpinning modern finance. In this review, we delve into the core themes, pedagogical strengths, and analytical insights of the book, highlighting its significance within the broader landscape of financial mathematics.

Overview and Scope of the Book

A Primer For The Mathematics Of Financial Engineering Second Edition

6 Foundational Objectives

The primary goal of Koshel's primer is to introduce readers to the mathematical techniques essential for understanding and modeling financial instruments. Unlike more abstract texts, it emphasizes clarity and practical relevance, ensuring that complex concepts are accessible without sacrificing rigor. The book covers a spectrum of topics—from basic probability theory to advanced derivatives pricing—making it suitable for those new to the field and for seasoned practitioners seeking a refresher.

Target Audience

The book is tailored for:

- Graduate students in financial engineering, applied mathematics, or quantitative finance.
- Practitioners in banking, hedge funds, and asset management seeking a deeper mathematical understanding.
- Researchers exploring theoretical aspects of financial models.

Its structure reflects a pedagogical approach, gradually building from elementary concepts to sophisticated models, enabling readers to develop a cohesive understanding of financial mathematics.

Core Topics and Methodological Framework

Probability and Statistics in Finance

At its foundation, the book emphasizes probability theory as the backbone of financial modeling. It explores:

- Random variables and their distributions, with special attention to common distributions such as normal, log-normal, and Poisson.
- Stochastic processes, including Brownian

motion and Lévy processes, which underpin asset price dynamics. - Risk measures, statistical inference, and estimation techniques critical for modeling uncertainties. This section equips the reader with tools to quantify and analyze uncertainty—an essential aspect of financial decision-making. Time Value of Money and Asset Pricing Building on probability, Koshel discusses fundamental concepts like present and future value, discounting, and interest rate models. These form the basis for: - Valuation of bonds, stocks, and derivatives. - Understanding arbitrage opportunities and the principle of no arbitrage, which underpins modern pricing theories. - The concept of risk-neutral valuation, a cornerstone in derivative pricing. By illustrating how these principles integrate, the book provides a robust framework for understanding how financial assets are valued in practice. A Primer For The Mathematics Of Financial Engineering Second Edition 7 Derivative Securities and Their Pricing A significant portion of the book focuses on derivatives: - Definitions and classifications (options, futures, swaps). - The Black-Scholes-Merton framework, including assumptions, derivation, and limitations. - Binomial models as discrete approximations and their convergence to continuous models. - Advanced topics like exotic options and their valuation. Koshel emphasizes the mathematical derivation of pricing formulas, highlighting how stochastic calculus and partial differential equations (PDEs) are instrumental in deriving solutions. Stochastic Calculus and Continuous-Time Models This section is arguably the heart of the book's analytical depth: - It introduces stochastic calculus concepts such as Itô integrals and Itô's lemma. - It discusses stochastic differential equations (SDEs) used to model asset prices. - The derivation of the Black-Scholes PDE and its solutions. - Extensions to models with stochastic volatility and jumps, capturing real-world phenomena like sudden market shocks and changing volatility regimes. These tools enable sophisticated modeling of dynamic markets and are essential for advanced quantitative research. Risk Management and Portfolio Optimization The book explores strategies to measure and hedge risk: - Variance, Value at Risk (VaR), and Conditional VaR. - Optimal portfolio selection based on mean-variance analysis. - The Capital Asset Pricing Model (CAPM) and Arbitrage Pricing Theory (APT). - Hedging strategies using derivatives to mitigate exposure. By integrating mathematical models with practical risk management techniques, the book underscores the importance of quantitative tools in safeguarding assets. Pedagogical Strengths and Approach Clarity and Accessibility Koshel's writing style emphasizes clarity, avoiding unnecessary jargon while maintaining mathematical rigor. Complex topics, such as stochastic calculus, are introduced with intuitive explanations and visualizations, making them approachable even for readers new to the subject. Step-by-Step Derivations The book meticulously derives key formulas, such as the Black-Scholes equation, ensuring that readers understand the underlying assumptions and mathematical logic. This approach fosters critical thinking and deep comprehension. A Primer For The Mathematics Of Financial Engineering Second Edition 8 Practical Examples and Exercises Real-world examples, problem sets, and case studies are woven throughout, reinforcing theoretical concepts and demonstrating their application in financial contexts. This pedagogical strategy enhances engagement and facilitates active learning. Critical Analysis and Limitations While the book excels as an introductory and intermediate text, certain limitations merit discussion: - Assumption of Market Frictions: The models often assume frictionless markets—no transaction costs, unlimited liquidity, and continuous trading—which are idealizations. While necessary for mathematical tractability, these assumptions limit direct applicability without adjustments. - Focus on Classical Models: The emphasis on models

like Black-Scholes may underrepresent recent advances in modeling market imperfections, jumps, and stochastic volatility, which are increasingly relevant in volatile markets. - Limited Computational Aspects: Although the book introduces numerical methods, it does not delve deeply into computational algorithms or software implementation, which are vital skills in modern financial engineering. Despite these limitations, the book provides a solid foundation upon which more advanced or specialized texts can build. Contribution to Financial Engineering Education Koshel's primer fills an important niche in financial education. By focusing on the mathematical underpinnings and providing clear derivations, it cultivates a rigorous understanding that enables practitioners to adapt models to evolving market conditions. Its balanced approach—combining theory with practical relevance—makes it a valuable resource for developing quantitative competence. Moreover, the second edition reflects updates aligned with current trends, such as incorporating more advanced stochastic models and discussing the implications of market anomalies. This adaptability ensures that the book remains pertinent in a rapidly changing financial landscape. Conclusion: A Valuable Resource for Quantitative Finance In summation, *A Primer for the Mathematics of Financial Engineering, Second Edition* stands out as a comprehensive, accessible, and analytically rigorous introduction to the mathematical tools essential for modern finance. Its structured approach, blending foundational theory with practical applications, makes it an indispensable resource for students and professionals alike. While it does not cover every emerging trend—such as machine learning applications or high-frequency trading—it provides the core mathematical language necessary to understand and innovate within the field. As financial markets continue to grow in complexity, the importance of a solid mathematical foundation cannot be overstated. Koshel's book contributes significantly to this goal, fostering a deeper understanding of the quantitative methods that drive financial innovation and risk management today. For anyone seeking to build or strengthen their mathematical expertise in financial engineering, this second edition offers a well-crafted, insightful, and reliable guide through the intricate world of financial mathematics. financial engineering, quantitative finance, derivatives, risk management, financial modeling, stochastic processes, option pricing, financial mathematics, numerical methods, investment strategies

Financial Engineering Principles of Financial Engineering Principles of Financial Engineering Handbook of Financial Engineering The Handbook of Financial Engineering Financial Engineering Financial Engineering A Primer for the Mathematics of Financial Engineering Financial Engineering So This is Financial Engineering: An introduction to financial engineering Financial Engineering Financial Engineering Principles Dictionary of Financial Engineering Project Financing Solutions Manual - a Primer for the Mathematics of Financial Engineering, Second Edition Principles of Financial Engineering Financial Engineering and Computation Financial Engineering The Financial Times Handbook of Financial Engineering Derivatives Tanya S. Beder Robert Kosowski Salih N. Neftci Constantin Zopounidis Clifford W. Smith Michael Bloss Otto Berger Goldman Dan Stefanica Michael Bloss Kizzi Nkwocha John Francis Marshall Perry H. Beaumont John F. Marshall John D. Finnerty Dan Stefanica Neftci Yuh-Dauh Lyuu Charles Errington Lawrence Galitz Paul Wilmott Financial Engineering Principles of Financial Engineering Principles of Financial Engineering Handbook of Financial Engineering The Handbook of Financial

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financial engineering financial engineering is poised for a great shift in the years ahead everyone from investors and borrowers to regulators and legislators will need to determine what works what doesn't and where to go from here financial engineering part of the robert w kolb series in finance has been designed to help you do just this comprised of contributed chapters by distinguished experts from industry and academia this reliable resource will help you focus on established activities in the field developing trends and changes as well as areas of opportunity divided into five comprehensive parts financial engineering begins with an informative overview of the discipline chronicling its complete history and profiling potential career paths from here part ii quickly moves on to discuss the evolution of financial engineering in major markets fixed income foreign exchange equities commodities and credit and offers important commentary on what has worked and what will change part iii then examines a number of recent innovative applications of financial engineering that have made news over the past decade such as the advent of securitized and structured products and highly quantitative trading strategies for both equities and fixed income thoughts on how risk management might be retooled to reflect what has been learned as a result of the recent financial crisis are also included part iv of the book is devoted entirely to case studies that present valuable lessons for active practitioners and academics several of the cases explore the risk that has instigated losses across multiple markets including the global credit crisis you'll gain in depth insights from cases such as countrywide société générale barings long term capital management the florida local government investment pool aig merrill lynch and many more the demand for specific and enterprise risk managers who can think outside the box will be substantial during this decade much of part v presents new ways to be successful in an era that demands innovation on both sides of the balance sheet chapters that touch upon this essential topic include musings about hedging operational risk and the no arbitrage condition in financial engineering its use and mis use this book is complemented by a companion website that includes details from the editors survey of financial engineering programs around the globe along with a glossary of key terms from the book this practical guide puts financial engineering in perspective and will give you a better idea of how it can be effectively utilized in real world situations

principles of financial engineering third edition is a highly acclaimed text on the fast paced and complex subject of financial engineering this updated edition describes the engineering elements of financial engineering instead of the mathematics underlying it it shows how to use financial tools to accomplish a goal rather than describing the tools

themselves it lays emphasis on the engineering aspects of derivatives how to create them rather than their pricing how they act in relation to other instruments the financial markets and financial market practices this volume explains ways to create financial tools and how the tools work together to achieve specific goals applications are illustrated using real world examples it presents three new chapters on financial engineering in topics ranging from commodity markets to financial engineering applications in hedge fund strategies correlation swaps structural models of default capital structure arbitrage contingent convertibles and how to incorporate counterparty risk into derivatives pricing poised midway between intuition actual events and financial mathematics this book can be used to solve problems in risk management taxation regulation and above all pricing a solutions manual enhances the text by presenting additional cases and solutions to exercises this latest edition of principles of financial engineering is ideal for financial engineers quantitative analysts in banks and investment houses and other financial industry professionals it is also highly recommended to graduate students in financial engineering and financial mathematics programs the third edition presents three new chapters on financial engineering in commodity markets financial engineering applications in hedge fund strategies correlation swaps structural models of default capital structure arbitrage contingent convertibles and how to incorporate counterparty risk into derivatives pricing among other topics additions clarifications and illustrations throughout the volume show these instruments at work instead of explaining how they should act the solutions manual enhances the text by presenting additional cases and solutions to exercises

presents a fresh introduction to financial engineering this book offers links between intuition and underlying mathematics and a mixture of market insights and mathematical materials it also includes end of chapter exercises and case studies bestselling author salih neftci presents a fresh original informative and up to date introduction to financial engineering the book offers clear links between intuition and underlying mathematics and an outstanding mixture of market insights and mathematical materials also included are end of chapter exercises and case studies in a market characterized by the existence of large pools of liquid funds willing to go anywhere anytime in search of a few points of advantage there are new risks lacking experience with these new risks firms governmental entities and other investors have been surprised by unexpected and often disastrous financial losses managers and analysts seeking to employ these new instruments and strategies to make pricing hedging trading and portfolio management decisions require a mature understanding of theoretical finance and sophisticated mathematical and computer modeling skills important and useful because it analyzes financial assets and derivatives from the financial engineering perspective this book offers a different approach than the existing finance literature in financial asset and derivative analysis seeking not to introduce financial instruments but instead to describe the methods of synthetically creating assets in static and in dynamic environments and to show how to use them his book complements all currently available textbooks it emphasizes developing methods that can be used in order to solve risk management taxation regulation and above all pricing problems this perspective forms the basis of practical risk management it will be useful for anyone learning about practical elements of financial engineering exercises and case studies at end of each chapter and on line solutions manual are provided it explains issues involved in day to day life of traders using language other than

mathematics it offers careful and concise analysis of the libor market model and of volatility engineering problems

this comprehensive handbook discusses the most recent advances within the field of financial engineering focusing not only on the description of the existing areas in financial engineering research but also on the new methodologies that have been developed for modeling and addressing financial engineering problems the book is intended for financial engineers researchers applied mathematicians and graduate students interested in real world applications to financial engineering

financial engineering ist eines der spannendsten gebiete einer investment und großbank dabei fließen viele fachbereiche zusammen das buch financial engineering zeigt die einzelnen strategien bewertungen das risikocontrolling und den financial engineeringprozess auf und geht dabei explizit auf die verwendeten derivate sowie die eingesetzten kombinationsstrategien ein

it is the aim of this book to train and educate financial experts investment bankers traders financial advisors and natural scientists who are active in financial engineering financial engineering is a necessary skill in many sectors of financial industry knowledge of financial engineering improves career opportunities for financial experts and opens doors to new and highly interesting employment opportunities the book comes with numerous excel and vba models and can be used as the basis for a training course financial engineering is a valuable resource of information for all participants in the financial markets it is the standard textbook for the program certified financial engineer cfe by the eifd in cooperation with deutsche b rse group what distinguishes this book from other textbooks is the ease of reading complimented by pronounced technical insights into otherwise complex financial products it contains lots of very accessible and useful information and is a must read for all market participants who are aiming to understand the concepts behind derivatives and their applications in increasingly structured products hermann josef lamberti mitglied des vorstands deutsche bank ag financial engineering is one of the most interesting and challenging fields in finance experts in the field need a thorough education the institutes aims are excellent i wish you every success john c hull professor f r derivate und risikomanagement an der rotman school of management der university of toronto

so this is financial engineering is an authoritative and inspiring book written by kizzi nkwocha the creator of business game changer magazine money and finance magazine and the property investor magazine this book serves as a comprehensive introduction to the principles and practices of financial engineering designed specifically for finance professionals seeking to enhance their understanding and skills in this field financial engineering is of paramount importance in today s dynamic and complex financial landscape it involves the application of mathematical and quantitative techniques to design innovative financial products develop sophisticated risk management strategies and optimize investment portfolios this book delves into the significance of financial engineering and explores how it can bring substantial benefits to finance professionals one of the primary benefits of financial engineering is its ability to provide a systematic framework for decision making by employing mathematical models statistical analysis and advanced risk assessment techniques financial engineering equips professionals

with the tools to make informed decisions and mitigate risks effectively it offers a structured approach to tackle complex financial challenges enabling professionals to optimize their strategies and achieve better outcomes so this is financial engineering serves as a valuable resource for finance professionals as it covers a wide range of topics essential to understanding and implementing financial engineering principles from option pricing models and portfolio optimization to risk management strategies and market microstructure the book provides a comprehensive overview of the key concepts and techniques used in financial engineering by reading so this is financial engineering finance professionals will gain a deeper understanding of the theoretical foundations and practical applications of financial engineering they will learn how to leverage mathematical models statistical analysis and technological advancements to enhance their decision making capabilities and improve overall financial performance so this is financial engineering not only provides theoretical explanations but also offers practical insights and real world examples to reinforce learning and encourage practical application whether you are a seasoned finance professional or a budding enthusiast looking to expand your knowledge so this is financial engineering is an essential read it provides a comprehensive and accessible introduction to the principles and practice of financial engineering empowering you with the tools and insights to excel in the dynamic world of finance

stock bonds cash the investment mind is often programmed the reality is that most investors think in terms of single asset classes and allocate money to them accordingly the unique contribution of first principles an investor s guide to building bridges across financial products is that for the first time a single unified valuation approach is available to use for all financial products this book shows you how to focus on the dynamics of processes and interrelationships of different investment choices providing the reader with a financial toolbox to equips any investor with the knowledge to deconstruct and value any financial product making it a must if you re a portfolio manager or an individual investors interested in building the optimal portfolio

a practical guide to the inside language of the world of derivative instruments and risk management financial engineering is where technology and quantitative analysis meet on wall street to solve risk problems and find investment opportunities it evolved out of options pricing and at this time is primarily focused on derivatives since they are the most difficult instruments to price and are also the riskiest not only is financial engineering a relatively new field but by its nature it continues to grow and develop this unique dictionary explains and clarifies for financial professionals the important terms concepts and sometimes arcane language of this increasingly influential world of high finance and potentially high profits john f marshall new york ny is a managing partner of marshall tucker associates a new york based financial engineering and consulting firm former executive director of then international association of financial engineers marshall is the author of several books including understanding swaps

a timely update to one of the most well received books on project financing as an effective alternative to conventional direct financing project financing has become one of the hottest topics in corporate finance it s being used more and more frequently and more successfully on a wide variety of high profile corporate projects and has long been used to fund large scale natural resource projects but the challenges of successful

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a comprehensive text and reference first published in 2002 on the theory of financial engineering with numerous algorithms for pricing risk management and portfolio management

financial engineering is a text with a methodological thread making it appropriate as a reference text risk management and measure and control of volatility is a major theme but broader financial issues are also covered to provide the reader with a conceptual framework to manipulate and evaluate financial instruments Errington's text analyses the spectrum of financial engineering including explanations of financial axioms and mathematical techniques with a summary of the instruments and worked examples of how they operate as well as risk management arbitrageurs are also catered for to show how instruments can be valued deconstructed and repackaged

the financial times handbook of financial engineering clearly explains the tools of financial engineering showing you the formulas behind the tools illustrating how they are applied priced and hedged all applications in this book are illustrated with fully worked practical examples and recommended tactics and techniques are tested using recent data

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