

# ASSET LIABILITY MANAGEMENT

## Asset Liability Management Cycle



# Asset Liability Management

**Pooya Farahvash**



## **Asset Liability Management:**

**Asset/liability Management** Jerry Hartzog, 1983      Asset-Liability and Liquidity Management Pooya Farahvash, 2020-05-21 Asset Liability and Liquidity Management distills the author's extensive experience in the financial industry and ALM in particular into concise and comprehensive lessons. Each of the topics are covered with a focus on real world applications based on the author's own experience in the industry. The author is the Vice President of Treasury Modeling and Analytics at American Express. He is also an adjunct Professor at New York University teaching a variety of analytical courses. Learn from the best as Dr Farahvash takes you through basic and advanced topics including The fundamentals of analytical finance Detailed explanations of financial valuation models for a variety of products The principle of economic value of equity and value at risk The principle of net interest income and earnings at risk Liquidity risk Funds transfer pricing A detailed Appendix at the end of the book helps novice users with basic probability and statistics concepts used in financial analytics

**Asset-Liability Management for Financial Institutions** Bob Swarup, 2012-05-24 QFINANCE KEY CONCEPTS series is an essential aid to the budding finance professional who requires the distilled and in depth information for that all important meeting interview or daily task. Each book is set to a standard format which includes real life case studies chapter summaries and step by step advice plus sources of further information

**Asset Liability Management. 3rd Edition**, 2014-08-05 The book begins with a description of how the revenue generation mechanism of a bank works. Asset liability management ALM and associated interest rate and liquidity risks are defined and other measures such as duration and convexity are calculated. In order to understand the various yield curve shapes shifts and outlooks a review of the historical US yield term structures is conducted. This is followed by a look at various ALM strategies in view of future expected interest rate outlooks and their impact on the maturity distributions of assets liabilities of banks. Next the various assumptions used in an ALM model are assessed followed by an explanation of price and rate gaps with some basic illustrations to understand the concepts of net interest income at risk and market value at risk. ALM reports profile cash flows by maturity or reset buckets. A methodology for building maturity and liquidity profiles for banks advances and deposits portfolios using the Pivot table chart functionality in EXCEL is discussed. Step by step methodologies for various ALM measurement tools follow. These include Fall in Market Value of Equity Earnings at Risk Cost to Close liquidity gap Cost to Close interest rate gap Rate Sensitive Gap Duration Gap. An overview of other ALM reports such as price sensitive gap net interest income NII and liquidity gap is given. Applications for explaining immunization and portfolio dedication are presented. An EXCEL Solver based fixed income portfolio optimization model is discussed and scenarios for minimizing duration and maximizing convexity of the portfolio are presented. A discussion of liquidity risk management measures including ratios and analyses for measuring liquidity risk limits for managing the risk general and specific requirements for developing a contingency funding plan and liquidity enhancement tactics for company specific and systemic crisis. A methodology for

stress testing liquidity using a Value at Risk VaR based approach for a fixed income portfolio is also discussed The book concludes with a case study for assessing why bank regulations fail This simulation results based study looks at the efficacy of Capital Adequacy Ratio CAR as an indicator of bank performance and seeks to identify a more valuable leading indicator or target account for monitoring bank performance and health

**Asset and Liability Management for Banks and Insurance Companies** Marine Corlosquet-Habart, William Gehin, Jacques Janssen, Raimondo Manca, 2015-09-21 This book introduces ALM in the context of banks and insurance companies Although this strategy has a core of fundamental frameworks models may vary between banks and insurance companies because of the different risks and goals involved The authors compare and contrast these methodologies to draw parallels between the commonalities and divergences of these two services and thereby provide a deeper understanding of ALM in general

*Bank Asset and Liability Management* Moorad Choudhry, 2011-12-27 Banks are a vital part of the global economy and the essence of banking is asset liability management ALM This book is a comprehensive treatment of an important financial market discipline A reference text for all those involved in banking and the debt capital markets it describes the techniques products and art of ALM Subjects covered include bank capital money market trading risk management regulatory capital and yield curve analysis Highlights of the book include detailed coverage of Liquidity gap and funding risk management Hedging using interest rate derivatives and credit derivatives Impact of Basel II Securitisation and balance sheet management Structured finance products including asset backed commercial paper mortgage backed securities collateralised debt obligations and structured investment vehicles and their role in ALM Treasury operations and group transfer pricing Concepts and techniques are illustrated with case studies and worked examples Written in accessible style this book is essential reading for market practitioners bank regulators and graduate students in banking and finance Companion website features online access to software on applications described in the book including a yield curve model cubic spline spreadsheet calculator and CDO waterfall model

*Asset & Liability Management* Jean Dermine, Youssef F. Bissada, 2002 As institutional shareholders increase pressure on value creation and as central banks around the world are forcing banks to improve their ALM capabilities the time has come for every banker to master the tools of Asset and Liability Management and the control of value creation and risk Written for a general business audience by Jean Dermine an INSEAD expert Asset and Liability Management is a complete toolbox for those wishing to get to grips with the subject Unique in its concise clear and accessible presentation of the concepts the book steers clear of complex mathematics and presents the tools in an intuitive and simple way by using modern visual educational techniques The book sheds light on questions such as how do the various pieces of the bank puzzle fit with one another how does each piece of the bank contribute to value creation how does one ensure that risks are being controlled how do you evaluate performances on a risk adjusted basis how do you price loans to secure the creation of value It also includes discussions on profit center management pricing credit risk and loan provisioning and the management of

interest rate and liquidity risks Threading through the book are a set of exercises with solutions to measure understanding of the concepts as they build on each other Packaged with the book is a step by step tutorial CD ROM that focuses on visuals and exercises with built in solutions This can be used as a stand alone self learning device or as a tool after reading the book to test and reinforce the concepts learnt

Asset Liability Management Optimisation Beata Lubinska,2020-02-24 An advanced method for financial institutions to optimize Asset Liability Management for maximized return and minimized risk Financial institutions today are facing daunting regulatory and economic challenges As they manage bank regulation and competition institutions are also optimizing their Asset Liability Management ALM operations The function of the ALM unit today goes beyond risk management related to the banking book into managing regulatory capital and positioning the balance sheet to maximize profit Asset Liability Management Optimization A Practitioner s Guide to Balance Sheet Management and Remodelling offers a step by step process for modeling and reshaping a bank s balance sheet Based on the author s extensive research it describes how to apply a quantifiable optimization method to help maximize asset return and minimize funding cost in the banking book ALM ranks as a key component of any financial institution s overall operating strategy Now financial professionals can use an advanced solution for optimizing ALM This book takes a closer look at the evolving role of the ALM function and the target position of the banking book It provides strategies for active management structuring and hedging of a bank balance sheet while also exploring additional topics related to ALM A description of the Funds Transfer Pricing FTP process related to a bank s target position Detailed examinations of interest rate risk in the banking book IRRBB Discussion of Basel III regulatory requirements and maturity gap analysis Overview of customer behavior along with its impact on interest rate and liquidity risk Practical spreadsheet models NII sensitivity and EVE volatility IRRBB model simplified optimization model for minimization of average funding cost for a bank and an example of behavioral model for Non Maturing Deposits Explorations of model risk sensitivity analysis and case studies The optimization techniques found in Asset Liability Management Optimization can prove vital to financial professionals who are tasked with maximizing asset return and reducing funding costs as a critical part of business objectives

Asset-Liability Management with Reference to Liquidity Management Dubey Somprabh,Malik S B,Bishnoi Vishal,2015-01-05 Asset Liability Management ALM is an important planning of the banks for facilitating the liquidity management ALM is an important tools for identification the mismatches between the total assets and total liabilities of a bank It plays an important role in maintaining an adequate level of liquidity in terms of banks The study highlights the insight of the subject to the students researchers and the practitioners

**Asset Liability Management** T. Ravi Kumar,2005-03 The face of Indian financial sector changed forever with the initiation of economic reforms in 1991 Deregulation and integration has led Indian banks and financial institutions into competition both on the assets side as well as the liabilities side of the balance sheet forcing them to assume greater and newer risks in their quest for higher returns Accordingly the need for bankers to be familiar with the risks to

which they are exposed and the tools available for managing such risks assumes vital significance The US savings and loan crisis in the early 1980s and the Asian crisis of the late 1990s strongly underscored the dangers confronting banks and financial institutions which choose to ignore the implications of interest rate risk and liquidity risk Asset liability management ALM provides a macro level framework and a sophisticated tool for modern risk management in banks This is an authoritative work on the fundamentals of ALM The book commences with an introduction to the types of risks confronting banks and goes on to describe the concept rationale and implementation of asset liability management **Bank Asset Liability Management Best Practice** Polina Bardaeva,2021-04-19 As bankers incorporate more and more complicated and precise calculations and models a solely mathematical approach will fail to confirm the viability of their business This book explains how to combine ALM concepts with the emotional intelligence of managers in order to maintain the financial health of a bank and quickly react to external environment challenges and banks microclimate changes ALM embraces not only balance sheet targets setting instruments and methodologies to achieve the targets but also the correct and holistic understanding of processes that should be set up in a bank to prove its prudence and compliance with internal and external constraints requirements and limitations and the ongoing continuity of its operations **Bank Asset Liability Management Best Practice** delves into the philosophy of ALM discusses the interrelation of processes inside the bank and argues that every little change in one aspect of the bank processes has an impact on its other parts The author discusses the changing role of ALM and its historical and current concepts its strengths and weaknesses and future threats and opportunities **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 **An Introduction to Banking** Moorad

Choudhry,2011-09-07 A great write up on the art of banking Essential reading for anyone working in finance Dan Cunningham Senior Euro Cash OBS Dealer KBC Bank NV London Focused and succinct review of the key issues in bank risk management Graeme Wolvaardt Head of Market Risk Control Europe Arab Bank plc London The importance of banks to the world s economic system cannot be overstated The foundation of consistently successful banking practice remains efficient asset liability management and liquidity risk management This book introduces the key concepts of banking concentrating on the application of robust risk management principles from a practitioner viewpoint and how to incorporate these principles into bank strategy Detailed coverage includes Bank strategy and capital Understanding the yield curve Principles of asset liability management Effective liquidity risk management The role of the bank ALM committee Written in the author s trademark accessible style this book is a succinct and focused analysis of the core principles of good banking practice

**Handbook of Financial Engineering** Constantin Zopounidis,Michael Doumplos,Panos M. Pardalos,2010-07-25 Over the past decade the financial and business environments have undergone significant changes During the same period several advances have been made within the field of financial engineering involving both the methodological tools as well as the application areas This comprehensive edited volume 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 This book is divided into four major parts each covering different aspects of financial engineering and modeling such as portfolio management and trading risk management applications of operation research methods and credit rating models Handbook of Financial Engineering is intended for financial engineers researchers applied mathematicians and graduate students interested in real world applications to financial engineering

**Handbook of Asset and Liability Management** Stavros A. Zenios,William T. Ziemba,2007-08-08 The Handbooks in Finance are intended to be a definitive source for comprehensive and accessible information in the field of finance Each individual volume in the series presents an accurate self contained survey of a sub field of finance suitable for use by finance and economics professors and lecturers professional researchers graduate students and as a teaching supplement It is fitting that the series Handbooks in Finance devotes a handbook to Asset and Liability Management Volume 2 focuses on applications and case studies in asset and liability management The growth in knowledge about practical asset and liability modeling has followed the popularity of these models in diverse business settings This volume portrays ALM in practice in contrast to Volume 1 which addresses the theories and methodologies behind these models In original articles practitioners and scholars describe and analyze models used in banking insurance money management individual investor financial planning pension funds and social security They put the traditional purpose of ALM to control interest rate and liquidity risks into rich and broad minded frameworks Readers interested in other business settings will find their discussions of financial institutions both instructive and revealing Focuses on pragmatic

applications Relevant to a variety of risk management industries Analyzes models used in most financial sectors

Asset-Liability Management Richard A. Stevenson, Daniel E. Stevenson, 1994      The Essentials of Risk Management,  
Chapter 8 - Asset-Liability Management Michel Crouhy, Dan Galai, Robert Mark, 2005-12-14 Here is a chapter from The  
Essentials of Risk Management a practical non ivory tower approach that is necessary to effectively implement a superior  
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and more      **Asset Liability Management** ,2015      Asset and Liability Management Handbook G. Mitra, K.  
Schwaiger, 2011-03-29 Recent years have shown an increase in development and acceptance of quantitative methods for  
asset and liability management strategies This book presents state of the art quantitative decision models for three sectors  
pension funds insurance companies and banks taking into account new regulations and the industries risks

**Asset/Liability Management Basics for Community Financial Institutions** James T. Wilkinson, 2004-01-01

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