

Index

- Accrued interest receivable 3.A-1
- Amortization schedule 1-8
- Analytic ratios 2-1
- Arctangent function 5.A-4, 5
- ARM 1-8, 4-1, 5.A-3, 8, 5.G-6, 7.B-2, 7.C-2, 7.D-2
 - lagging market index 5.H-2
 - teaser and non-teaser 5.I-1
- Assets 1-2, 2-1, 2.B-1, Chapter 5

- Balance sheet 2-1
- Balloon payment mortgages 3.A-1, 4-2, 5.E-1
- Bank Rate Monitor 8.B-1
- Base case 1-2, 8
- Basis points 1-2
- Benchmark approach 3.A-11
- Benchmark security 5.A-3, 8, 5.B-3, 5.D-3, 5.G-6
- Black-Scholes model 1-4, 1-9, 7.A-1
- Black s (1976) formula 1-9, 7.A-1, 3.C-3, 4, 7.A-1, 2, 7.D-1 thru 4, 7.E-1, 7.F-1, 2, 3, 7.H-1, 2
- Black s formulae for puts and calls 7.A-2
- Book capital 2-1
- Book value 3.A-12, 5.Z-1
- Bootstrap derivation 8.A-2
- Borrowing 1-4, 3.B-2
- Buy-downs 7.C-1
- Buy-ups 7.C-1

- Call option 3.C-5
- Cap rate 3.C-4
- Caps, interest rate 1-8, 9, 7.F-1
 - COFI ARMs 5.H-3
 - forward 7.F-1
 - lifetime rate 5.G-4, 5.H-4, 5.I-2, 3, 5.J-11
 - periodic 5.J-1, 4
- Cash flow 1-3
- Certificate of deposit (CD) 1-5, 3.B-1
 - early withdrawal penalty 6.A-2
 - intangible value 6.A-2
 - retail 3.B-1
 - value 6.A-2
 - wholesale 3.B-1
- Cheapest-to-deliver (CTD) security 3.C-5, 7.G-3, 4
- Closure rate 7.B-3, 7
- CMR 1-3
- CMT mortgages 3.A-13
- COF 4-1
- COFI 3.C-3
 - one month lag 5.H-3
- Collars 5.Z-1
- Collateralized Mortgage Securities Issued 3.B-3

- Construction loans in process 3.C-5
- Contract Codes 7.B-6
- Convexity 2.C-1
- Coupon repricing 1-8
- CPR 5.A-4, 5
- Credit losses 2-1

- Deleveraged bonds 5.Z-1
- Demand deposits 1-4, 3.A-14, 3.B-1, 2, 6.D-1
- Deposit intangibles 3.A-13, 3.B-1
- Deposits 3.B-1
 - core 3.A-13
- Derivatives: financial 2.B-1
 - mortgage 3.A-11
- Discounted cash flow analysis 1-3
- Discount factors 1-3, 4-2
- Discount Rate 1-3
- Dual index notes 5.Z-1
- Duration 2.C-2 thru 4

- Effective duration 2.C-1, 2
- Embedded options 1-6, 3.B-2, 3
 - calls 3.C-5
 - caps 1-8, 9, 7.F-1
 - collars 5.Z-1
 - floors 1-8, 9, 7.F-1
- Empirically estimated equation 1-7
- Equations:
 - Adjustment of rate distribution to zero-coupon rates 5.A-2
 - Annualized discount yield for short-term futures contract 7.G-2
 - ARM pool s remaining balance 5.H-5
 - ARM pool s scheduled interest 5.H-4
 - ARM pool s scheduled principal 5.H-4
 - Balance equation for CD prices 6.A-5
 - Calculation of coupon constrained by caps and floors 5.G-4
 - Calculation of fully-indexed rate for COFI ARMs 5.H-3
 - Calculation of fully-indexed rate for Treasury ARMs 5.G-3
 - Cash flow for CD Balances 6.A-6
 - Cash flow for CD Prices 6.A-3
 - Cash flow discount factor for demand deposits 6.D-5
 - Cash flow for demand deposits 6.D-2
 - Cash flow for FRFM borrowings 6.B-2
 - Cash flow stream 5.B-1, 5.C-1, 5.D-1, 2
 - CD balances rolled over 6.A-8

CD balances withdrawn early	6.A-5	Non-interest cost for CD prices	6.A-3
CD balance for first month of each new term	6.A-7	Offered rate for demand deposits	6.D-3
CD Interest Expense	6.A-9	One-month rate	5.A-1
Closure rate on optional commitments to originate mortgages	7.B-3, 4	Payment of scheduled monthly principal and interest	5.A-3
Conversion of annual prepayment rate to monthly	5.A-5	Prepayment rate	5.A-4
Demand deposit balance	6.D-4	Present value of demand deposits	6.D-2
Discount factor for 15-year FRM securities	5.D-2	Present value of fixed-rate, fixed-maturity borrowings	6.B-2
Discount factor for 30-year FRM loans	5.B3	Present value of one side of swap	7.E-1
Discount factor for 30-year FRM securities	5.C-2	Present value of shocked rate scenarios	1-6
Discount factor for ARMs	5.G-6	Present value of VRFM borrowings	6.C-2
Discount factor for balloon securities	5.E-3	Present value of VRFM deposits	6.C-2
Discount factor for cash flows of VRFM deposits	6.C-3	Present value of payment due from most recent exercise date	7.F-4
Discount factor for cash flow of escrow accounts	6.E-3	Present value of T securities using implied forward rates	1-5
Discount factor for fixed rate, fixed maturity borrowings	6.B-2	Present value using constant discount rate	1-3
Discount factor for FRFM deposits	6.A-5	Present value using zero coupon T yields	1-5
Discount factor for monthly P&I cash flows	6.F-5	Price of CDs	6.A-3
Discount factor for OAS analysis	5.A-6	Price of interest rate derivatives	1-9
Discount factor for static cash flow analysis	5.A-6	Price of optional commitment	7.D-3, 4
Discount factors for valuing mortgage servicing	6.F-3	Price of retail CE intangible	6.A-6
Discount factors for swaps	7.E-2	Price of short-term futures contracts	7.G-1
Distance between lifetime cap and coupon of non-teaser sub-balances	5.J-11, 12	Projection of COF Index	5.H-3
Early-withdrawal rate for CDs	6.A.4	Projection of Treasury ARM index	5.G-3
Equilibrium demand deposit interest rate	6.D-3	Proportion of MBS balances to total (teaser and non teaser) balances	5.J-7
First payment date for swap	7.E-3	Rates of a swap or forward swap	7.E-2
Five-year rate	5.A-2	Ratio of total balances with periodic floors to total balances with periodic caps	5.J-6
Float from mortgage servicing	6.F-3	Refinancing factor	5.A-4
Forward price of caps and floors	7.F-2	Refinancing factor for 15-year FRMs	5.D-2
Fraction of ARMs with lifetime caps	5.J-1	Refinancing factor for ARMs	5.G-4
Fraction of ARMs subject to periodic rate caps	5.J-5	Refinancing factor for balloon mortgages	5.E-2
Fraction of ARMs sub-serviced by others	6.F-6	Refinancing factor for moderately-seasoned and unseasoned conventional 30-year FRMs	5.B-2
Fraction of ARMs not sub-serviced	6.F-7	Refinancing factor for moderately-seasoned and unseasoned FHA/VA 30-year FRMs	5.B-2
Fraction of FRMs sub-serviced by others	6.F-6	Refinancing factor for well-seasoned conventional 30-year FRMs	5.B-2
Fraction of FRMs not sub-serviced	6.F-6	Refinancing factor for well-seasoned FHA/ VA FRMs	5.B-2
Fraction of teaser balances with periodic caps	5.J-5	Retention rate of demand deposits	6.D-4
Fully-indexed rate for COFI ARM	5.H-3	Rollover rate	6.A-8
General present value of assets	1-5	Seasonality factor	5.A-4
Month of last payment for swap	7.E-3	Strike price of caps and floors	7.F-2
Net Portfolio Value	3.C-6	Value of ARMs with (or without) lifetime caps	5.J-2
Non-interest cost for CD balances that have been rolled over	6.A-7	Value of construction loans in process	3.C-5
		Value of firm commitment to purchase or originate mortgage	7.C-3

- Value of firm commitment(s) to sell mortgage(s) 3.C-2, 7.C-3, 4
- Value of futures position 3.C-5
- Value of long-term futures contract in shocked rate scenario 7.G-3
- Value of long-term interest rate futures contract in alternate rate scenarios 7.G-4
- Value of optional commitments to originate mortgages 3.C-1, 7.B-1, 3, 4
- Value of options (caps and floors) 7.F-1
- Value of short position in short-term futures contract in shocked rate scenario 7.G-2
- Yield volatility of caps and floors 7.F-3
- Escrow:
 - accounts 3.B-2
 - deposits 3.A-12
 - float 3.A-13, 6.E-1, 6.F-3
 - GAAP treatment 6.E-1, 7
- Eurodollar CD future 3.C-4, 7.G-2, 7.H-1, 2
- Expiration date 3.C-3, 7.D-1
- Exposure, (interest rate) risk 1-2, 2-1
- Exposure Report 2-1, 2, 2.D-1f, 4-2

- Face value 2.A-14, 2.C-1
- Fall out 7.C-1
- FHA/VA 3.A-1, 2, 4-1, 2, 5.A-8, 9, 10, 5.B-1, 3, 7.D-4
- FHLB advances 1-4, 3.B-2, 8.A-1
- FHLMC 4-1, 3, 5.A-3, 5.B-3
- Financial derivatives 2-1, 2.B-1
- Financial ratios 2.A-1
- Firm commitments to buy, sell or originate mortgages 7.C-1
- Float: escrow 6.E-1
 - mortgage servicing 6.F-1
 - P&I 6.F-7, 8
 - T&I 6.F-8
- Floors, interest rate 1-8, 9, 7.F-1
 - forward 7.F-1
 - lifetime rate 5.G-4, 5.H-4, 5.I-2, 3
- FNMA 4-1, 5.A-3, 5.B-3, 7.B-3
- Forward contract 1-9
- FRFM 6.A-2, 6.B-1
- FRM 4-1, 2, 3, 2.
- Future cash flows 3.A-2
- Futures 1-9, 2-1, 3.C-4, 5, 7.G-1, 7.H-1
 - contract codes 7.G-4
 - contract codes for options 7.H-2
 - options (put & call) 7.H-1

- GAAP 6.E-1, 7, 6.F-8
- GNMA 3.A-12, 4-1, 5.A-3, 5.B-3, 5.C-2

- Hedging Analysis 2.B-1

- Implied forward rates 1-5
- Incremental value of options on liabilities 3.B-3
- Index amortizing notes 5.Z-1
- Interest rate risk 1-1, 2, 2-1, 2.A-1
- Interest Rate Risk Exposure Report 1-3, 2.C-1, 2.D-1 thru x, 3.A-1
- Interest rate: caps table 4-2
 - lock 7.B-1, 7.C-1
 - sensitivity matrix 2.A-1
 - scenario 2.B-1
 - swaps 1-4
- Interpolation 5.A-11, 12, 5.F-2, 5.K-1, 3, 5.L-1
- Inverse floaters 5.Z-1
- Investment securities 1-4, 6

- Liabilities 1-1, 2, 2-1, 2.B-1, 3.B-1 thru 3, Chapter 6
- LIBOR 1-5
- LIP 3.C-5
- Liquidity risk 1-3
- Loans 1-4, 6, 5.G-6
- Long positions 7.G-3
- Long term instruments 7.G-3

- Margin (bp): (see servicing spread)
 - ARMs 5.G-5, 5.H-6, 5.I-2, 5.J-10
 - FRMs 5.B-3
 - 30-year FRMs 5.B-3, 5.C-1, 2
 - 15-year FRMs 5.D-2
 - 7-year balloon mortgages 5.E-2, 3
 - credit card loans 5.U-2
 - risk (credit & liquidity) 3.A-2
- Marked to market (futures contracts) 3.C.5
- Market value 1-6, 8, 2-1, 3.A-1
- MBA 3.A.13
- MBS 3.A-1, 3.C-3, 7.C-1, 2, 7.D-1, 2
- MMDA 3.A-13, 3.B-2, 4-2, 6.D-1
- Model, for interest rate derivatives 1-9
 - Black-Scholes 1-4, 1-9, 7.A-1
 - NPV 1-1
- Money market accounts 6.D-3
- Mortgage derivatives 3.A-11
- Mortgage derivatives price table 4-2
- Mortgages 1-4, 6, 9
- Mortgage servicing fee 6.F-5
- Monte Carlo methodology 1-6, 8, 3.A-1, 11, 12, 5.A-1

- Net Portfolio Value (NPV) 2.B-1
 - defined 1-2
 - option-based approach 1-7
- Nilson Report 5.U-3
- Nine (interest rate) Scenarios 1-2, 2-1, 2.B-1, 5.A-8, 5.B-3, 7.B-2, 7.C-3, 7.D-1, 2
- NPV Model 1-1

- NPV ratio 2.A-1
 Nonperforming loans 3.A-1
- Off-Balance Sheet Contracts 1-2, 2-1, 2.B-1
 Off-Balance Sheet Positions 7.H-2
 Option adjusted spread (OAS) 1-8, 3.A-1, 5.A-1, 6, 7, 5.B-3, 5.D-3, 5.G-6 (see Margin)
 Option-based pricing approach (NPV model) 1-4, 6, 5.A-1, 8, 5.C-1
 Optional commitments to buy or sell mortgages 7.D-1
 contract codes 7.D-5
 Optional commitments to originate mortgages 7.B-1
 Options 1-9, 2-1
 call 3.C-5
 deposit withdrawal 1-1
 embedded 1-6
 interest rate caps 1-1, 6
 interest rate floors 1-1, 6
 in-the-money 7.F-1
 loan prepayment 1-1, 6
 put 3.C-5
 underlying instrument 7.H-1, 2
- P&I (Principal and interest) 6.F-1
 Passbook accounts 6.D-3
 Pass-through rate 5.E-2
 Par yield 8.A-1
 Penalty: early withdrawal 3.B-1
 failing to take loan 7.C-1
 Pipeline fall-out 7.B-1, 2
 Points of contact 1-2
 Portfolio restructuring 4-3, 4
 Premium 5.C-2
 Prepaid principal 5.B-2, 5.D-2
 Prepayment model 1-7
 Prepayment option 1-6
 Price sensitivity 1-1, 1-6
 Price Tables 3.A-11, 4-1 thru 4
 Prime rate 3.C-3, 5.U-2, 7.E-2, 8.C-1
 Proxy mortgage 7.B-1, 6, 7.C-2, 6
 Put option 3.C-5
- Range bonds 5.Z-1
 Rate: coupon 7.D-1
 pass-through 5.D-2, 7.D-1
 Ratios, financial 2-1, 2.A-1
 Refinancing incentive 1-8, 5.A-4, 5
 Remaining maturity (WARM) 6.C-1
 Required rate of return 1-3
 Retail CD rate 4-3, 8.B-1
 Retail CDs price table 4-2, 3
 Risk 1-3, 2.A-2
 credit 1-3, 3.A-2, 5.B-3 (see Margin)
 interest rate 1-2
 liquidity 1-3
 premium 1-6 (see Margin)
 Risk measures 2.A.1
 Riskless rate 7.D-2, 7.F-3
 Rollover 3.B-1
 Rollover rate 6.A-2
- Scenario analysis 1-1, 2
 Schedule CMR 1-2, 3, 3.A-2, Apndx A
 Schedule CMR Report 2-2, 2.D-x
 Secondary-Market CD Rate 3.A-14, 8.B-2
 Self-reporting approach 3.A-11
 Self-valued positions 3.C-5
 Sensitivity 1-2, 6, 3.A-12
 Sensitivity matrix 2.A-1
 Sensitivity Measure 2.A-2
 Sensitivity Measure line 2.D-1
 Servicing: cost 3.A-2, 3.B-3
 cost tables 4-1
 fee tables 4-1
 income 3.A-13
 mortgage loan 3.A-12
 spread 5.C-2, 5.G-5, 5.H-6 (see Margin)
 Shock 1-2, 6, 8, 2.A-2, 3.C-2, 7.B-5
 Short positions 7.G-2, 3
 Snapshot 1-2
 Speculate 2.B-4
 Splining 8.A-1
 Spot rate curve 1-5, 6
 Spot rate 1-5, 8.B-2
 Spread 1-6, 7, 8, 5.A-2
 on deposits 3.B-1
 option adjusted 5.C-2
 servicing 5.C-2 (see Margin)
 Static discounted cash flow approach (NPV model) 1-4, 5, 6
 Step-up bonds 5.Z-1
 Stress, interest rate 2.A-1
 Stress Testing 1-2, 8.A-2
 Strips 3.A-11, 5.N-2
 Stripped-back mortgage securities 5.N-3
 Strike rate 3.C-4
 Strike price of option 1-9, 3.C-3, 7.D-1, 7.H-1, 2
 Structured Notes 5.Z-1
 Structured securities 3.A-11
 Substituting ARMs for FRMs 4-4
 Summary page 2.A-1
 Surveys 1-6
 Swaps, interest rate 2-1, 2.B-1 thru 4, 3.C-3, 7.E-1
 fixed-for-floating 3.C-3, 4, 7.E-1, 2, 3
 forward 7.E-1, 2, 3
 Swaps yield curves 4-1
 Swaptions, interest rate 1-9, 3.C-4

T&I (Tax and insurance) 6.F-1
Tax-equivalent yield 3.A-11
T-bill futures 7.G-1, 2
Treasury bond futures 7.G-3
Time deposits 1-4
Thrift Financial Report 1-2, 3.A-13
Thrift National Index 8.B-1
Tranche 5.N-2
Transaction accounts 6.D-1, 3
Treasury bill rate 1-2, 8.B-1, 2, 8.C-1
Treasury securities 1-5
Treasury yield curve 1-2, 7
Treasury yields, zero coupon 1-5
Two-step mortgage 5.E-1

Underlying mortgage instruments, assumptions
7.D-1
Unwind 2.B-4

Variable-rate, fixed-liabilities (VRFM) liabilities
6.C-1
Volatility 1-6, 7, 9, 3.C-3, 7.F-2
variable, s 7.D-2
VRFM: Borrowings 6.C-1
Deposits 6.C-1
WAC (Weighted Average Coupon) 3.A.2
WARM (Weighted Average Remaining Maturity)
3.A-2, 5.J-9
Wholesale CDs yield curves 4-2
Wholesale deposits 3.B-1

Yield curve 1-2

Zero coupon (Treasury yield) curve 1-4, 4-2