Chapter 3
Calculating Novel Cross-Currency Bases and FX Hedged Pickups — 40

What is the FX Hedged Pickup? — 40
Finding xccy Bases — 41
Calculating FX Hedged Pickup — 47
Appendix 3.A: Xccy Bases — 49
Appendix 3.B: FX Hedged Pickups — 55

Chapter 4
FX Hedging of Fixed Income – What is the Best Way? — 62

FX Hedge Strategies — 62
Maturity-Matched Hedges — 63
Reducing Uncertainty to the Minimum Level for the Whole Tenor — 63
Practical Calculation of Maturity-Matched Yield Pickup — 65
Historical Results for G10 Maturity-Matched Yield Pickup — 66
Rolling Hedges — 69
Taking a Short-Term View — 69
Possible Actions at ‘Roll Point’ — 70
Historical Results for G10 Rolling Yield Pickup — 71
Rolling Pickup ‘One Period On’ and for the Tenor of the
Instrument — 74
Translation Effect — 75
Volatility Breakdown – What is Driving the Performance? — 76
Numerical Example — 79

Chapter 5
Introducing the Conversion Factor — 81

The Issuer’s Choices — 81
Tenor — 81
Credit Spread — 81
Cross-Currency Basis — 82
Conversion Factor — 82
Fees and Charges — 82
What is the Conversion Factor? — 82
Simplest Possible Example – 1-Year Bond, Zero Basis, USD
Corporate — 83
More Realistic – Using the Yield Curve — 84
Another Way to Think about It — 84
Examples of Conversion Factors — 87
Forecasting Conversion Factors — 87
Translating Spreads across Currencies — 92
Chapter 6
An Empirical Method of Calculating the Term Premium — 96
Introduction — 96
   Why is the Term Premium Important? — 97
The Term Premium and Forward Rates — 98
   An Empirical Method for Determining the Term Premium — 99
Results — 103
   Median (Predicted – Actual) Moves for USD — 103
Choice of Forward Curve — 104
Lookback Period — 105
Discount Factor Calculation — 105
10y Term Premium Results — 107
2y Term Premium Results — 108
   Recent Results: A General Pitfall with Term Premium Methods — 110
Discussion of Results — 111
Appendix 6.A: BIS Report Graphs — 112
References — 114

Chapter 7
An Update of the Term Premium Calculation — 116
Introduction — 116
Evolution of Yield Curves — 116
Term Premium Values Over Time — 118
Term Premium Models; Similarities and Differences — 119
Aggregating Model Results — 120

Chapter 8
Forward Curves, Duration and Convexity — 122
Are the Forwards a Useful Forecast? — 122
   Why are Forward Curves so ‘Abnormal’? — 122
Simple Spot and Forward Curve Evolution — 123
Forward Implied Slopes vs Realised Data — 125
Analysis of Mean Forecast Slope vs Mean Actual Slope — 127
Forward Implied Slopes and Direction — 128
Can We Monetise This? — 131
The Value of Convexity — 133
   Defining Duration — 134
   Defining Convexity — 136
   Numerical Calculation of Convexity — 138
The Long End of the Curve — 142
   Value of Convexity through Time — 143
Conclusion — 144
Appendix 8.A: EUR Ratios — 146
Appendix 8.B: USD Ratios — 149

Chapter 9
Implied vs Realised Convexity — 161
  Defining Convexity — 162
  Value of Implied Convexity — 163
  Value of Realised Convexity — 164

List of Figures — 169

List of Tables — 173

About the Authors — 175

References — 177

Index — 179