

Index

- ADM cross-market trading, 206–208
 Algorithmic trading, 13
 Airlines, pairs trading example, 33–65
 Agribusiness pairs, 206–208
 American airlines (*see* Airlines)
 Annualized volatility, formula, 33
 AROR, formula, 87
 Average true range (*see* True range)
- Bank stocks, volatility distortions,
 256–257
 Black box, 11
 Bonds, spread trading, 174–179
 Butterfly, gold, 172
- Capping the position size (*see* Position size)
 Complexity (*see* Risk)
 Contagion risk (*see* Risk)
 Continental Airlines (*see* Airlines)
 Copper, cross-market trading, 195–206
 Correlated price moves, 2
 Correlations
 - Airlines, 35
 - Equity index performance, 232–236
 - Energy futures, 108
 - Energy-US dollar, 105
 - Home builders, 65, 250
 - LME performance, 184
 - Mining stocks, 295
- Correlations and common sense, 35
 Costs, trading, 34, 197
 - Quantizing, 262
- Counterparty risk, 79
 - In CDs, 172
 - Also see* Risk
- Cramer, Jim, 282–288
 Crisis, Financial, 1
 Cross-margining, 79
- Cross-market trading, 187–228
 - Also see* Stress indicator
- Crossover trade, *see* Stress indicator
 Crude oil
 - Cross-market trading, 203–226
 - Price shocks, 8–9
- Data
 - Checking, 36
 - Closing times, 97
 - Holidays, correcting for 95
 - In-sample, 47
 - Out-of-sample, 47
- Data consistency, 34
 Data driven, 11
 Dell, spread example, 155–159
 Deviation, percentage, 36
 Directional neutral, *see* Market neutral,
 Pairs Trading
 Distortion ratio, 62–63
 Diversification, 12
 - Also see* Risk
- Dow, arbitrage, 301
 Dow, market neutral trading, 267–274
- Equity index pairs, *see* Pairs trading
 Energy cross-market trading, 208–228
 Energy pairs, 102–119
 Energy trading hours, 103
 Energy-US dollar correlation, 105
 ETFs
 - As one leg of a pair, 79–80
 - Composition, 79
 - Counterparty risk, 79
 - For short sales, 79, 83–84
 - Risks, 172
- Euribor, 26
 Eurobund (*see* Interest rates)

- Eurodollar rates, implied yield, 169–172
- European Interbank Offered Rate (*see* Euribor)
- Exchange trading hours, 189
- Execution, order, 89
- Exposure, market, 74–75
 - Also see* Leverage
- Exxon-Mobile, *see* Energy pairs

- Fat tail, 2, 205
- Filters
 - High distortion, 61
 - Price, 262
 - Skewness, 179
 - Volatility, 56
 - In energy, 217–219
 - In equity index, 231
 - In interest rates, 175–179, 241–244
 - In LME, 153
 - In market neutral, 260–262
 - In mining, 198
 - Volatility threshold, 60
- Financial crisis, 1
 - Price shocks, 6
- Fractal efficiency (*see* Price noise)
- Fundamentals
 - Balanced with technicals, 161
- Futures contracts
 - Margin and leverage, 102
- Reviewed, 93

- Gold
 - Cross market trading, 195–206
 - Implied yield, 169–172
 - Inflation pairs, *see* Pairs trading
 - Ratio with silver, 161–169

- High-frequency trading, 12
- Holidays, correcting for, 95, 121
- Home builders, 65–89
 - Market neutral trading, 250
- Hovnanian (HOV), *see* Home builders
- HP, spread example, 155–159

- Indexing, 252
- Implied yield, 169–172
 - Eurodollar rates, 170–172
 - Gold, 170–172
- Index arbitrage, 292–304
- Inflation, *see* Pairs, Inflation related
- Inflation scares, trading, 101–102
- Information ratio, 48–50, 88
- In-sample data, 47
- Interest rates
 - Eurobund price shocks, 7–8
 - Futures, *see* Pairs Trading
 - Market neutral trading, 274–278
- Intraday trading, 90

- KB Homes (KBH), *see* Home Builders

- Label risk, 172
- Leading Economic Index (LEI), 285
- Lennar (LEN), *see* Home builders
- Leverage, 74
 - Equity index example, 139
 - Varying, 140
- LME (London Metals Exchange) pairs, *see* Pairs trading
- Long Term Capital Management, 9
- Low volatility filter (*see* Filter)

- MACD, 32
- Mad Money*, 282–288
- Mandelbrot, Benoit, 18
- Market neutral trading, 249–280
 - Using the Dow, 267–274
 - Using interest rate futures, 274–279
- Mean reversion
 - And price noise, 22
 - Also see* Pairs trading
 - Combined with trends, 159–161
 - Comparison with trend, 250
- Merger arb, 290–292
- Mining cross-market trading, 195–206
- Mining pairs, 293–300
- Momentum difference method
 - See* Pairs trading
 - See* Stress indicator
- Morningstar, 288–289
- MSN Money, 286, 288
- Mutual funds, mining, 300

- NAV (*see* Net Asset Value)
- Net Asset Value
 - Calculation, 55, 85
- Noise (*see* Price noise)
- Notes, spread trading, 174–179

- Out-of-sample data, 47
- Overfitting, avoiding, 72

- Pairs trading
 - Agribusiness, 206–208
 - Airlines example, 33–65
 - Comparison of momentum difference and stress, 238–240
 - Energy, 102–119, 208–228
 - Equity index, 128–138
 - Correlation versus performance, 133
 - Using stress indicator, 230–238
 - Home builders example, 65–89
 - Low volatility filter, 71
 - Parameter thresholds, 70
 - Inflation related, 101–102
 - Crude, gold, EURUSD, 119–128
 - Interest rate futures, 154, 238–248
 - LME, 141–153
 - Trending pairs, 179–184
 - Mechanics using futures, 97–100
 - Mining, 293–300
 - Process, 31–92
 - Using futures, 93–154
 - Also see* Stress indicator
 - Parameters, test, *see* Testing
 - Performance measurement
 - (*see* Information ratio)
 - Platinum
 - Cross-market trading, 195–206
 - Ratio with gold, 161–169
 - Portfolio
 - Construction (Airlines), 55–56
 - Equity index example, 136–138
 - Energy example, 112–119, 220–226
 - Home builders example, 84–89
 - Interest rates, 244–248
 - Position sizing, 44–45
 - Capping excess exposure, 75–78
 - Capping using ETFs, 81
 - Market neutral, 256, 264–267
 - Precious Metals Index, 293–300
 - Price noise, 15–30
 - Determining the strategy, 25–26
 - Efficiency ratio, 15–18
 - Excel example, 18–19
 - Fractal efficiency, 18
 - For equity index markets, 21–22
 - For selected markets, 20–21
 - Importance of, 22
 - Profit studies, 23–28
 - Trend, 29
- Price shocks, 3–10
 - Avoiding, 9–10
 - During subprime crisis, 6
 - Formula, 4
 - Impact on trading, 5–10
 - In crude oil futures, 8–9
 - In S&P futures, 4
 - In interest rate futures, 6–8
 - Position bias, 3
- Program trading, 302–304
- Pulte Homes, *see* Home builders
- Quantizing, 262
- Rating services, trading using, 285–289
- Ratio
 - Gold/silver, 161–162, 165–169
 - Platinum/gold, 163–169
 - of prices, 158
- Regime switching, 274
- Relative differences, 38–39
- Relative value trading, 11, 187
- Returns
 - zero-value distorting results, 78
- Risk
 - Black box, 9
 - Calculating, 145
 - Complexity, 10–11
 - Contagion, 10–11
 - Counterparty, 11
 - ETFs, 172
 - Futures, 173
 - Directional, 11
 - Reduction, 12
 - Also see* Diversification, volatility, portfolio
 - Robustness, 52–54
- RSI, 38
- Shocks (*see* Price shocks)
- Silver, ratio with gold, 161–169
- Sizing (*see* Position sizing)
- Skew, in parameters, 42
- Slope, used in market neutral, 252–253
- Southwest Airways (*see* Airlines)
- Sovereign risk, 3
- Soybeans cross-market trading, 206–208
- S&P program trading, 302–304
- Spread risk, 172

310

INDEX

- Spreads,
 - Dell and HP example, 155–159
 - Risk-adjusted, 155–186
- Starmine, 286
- Statistical arbitrage, 13
 - Dow arbitrage, 301
 - Index arbitrage
 - Creating your own, 292–300
 - S&P program trading, 302–304
 - Merger arb, 290–291
 - New highs and lows, 290
 - Trade-offs, 282
 - Also see* Pairs trading
- Stochastic difference, 39
 - Also see* Pairs Trading (examples)
- Stochastic indicator, 38–39
- Stop-losses, 89–90
- Strategy (*see* Trading strategy)
- Stress indicator, 187–228, 229–248
 - Comparison with momentum difference, 194, 238–240
 - Formula, 190
 - Used for agribusiness cross-market trading, 206–208
 - Used for energy cross-market trading, 206–228
 - Used for equity index markets, 230–238
 - Used for mining cross-market trading, 195–206
- Subprime crisis, (*see* Financial crisis)
- Subprime disaster (*see* Financial crisis)
- Target volatility (*see* Volatility)
- Technicals, balanced with fundamentals, 159
- Term structure, *see* Yield curve
- Testing
 - Exploring for a solution, 91
 - LME parameters, 181
 - Parameter selection, 126, 259–260
 - Specifying, 48–49
 - Varying parameter values, 45–47, 196
 - Also see* Trade-offs, Pairs Trading (examples)
- TheStreet.com*, 287
- Time perspective, 34
- Toll Brothers (TOL), *see* Home builders
- Tracking risk, 172
- TradeStation, 214–216
- Trading
 - Habits in countries, 96
 - Yield curve, 174–179
- Trading strategy
 - Costs, 34
 - Determined by price noise, 25–26
 - Merger arb, 290–292
 - Using new highs and lows, 290
 - Using rating services, 285–290
 - Using upgrades and downgrades, 282–288
- Treasuries, trading the yield curve, 174–179
- Trend following
 - And price noise, 22
 - Applied to Dell and HP, 157
 - Combined with mean reversion, 159–161
 - Comparison with mean reversion, 250, 268
 - LME pairs, 179–184
 - Trend of price noise, 29
- True range, formula, 44
 - Used for volatility, 202–206
- Uncertainty, 1–13
- US Airways (*see* Airlines)
- Value Line, 286
- Volatility
 - Annualized, formula, 33, 126
 - Changing, 37–38
 - Comparisons, crude, gold, EURUSD, 126
 - Correcting for different, 121
 - Distortion at low prices, 256–257
 - Filters (*see* Filters)
 - Gold/silver ratio, 165–169
 - Index (VIX), 2
 - In efficiency ratio, 17
 - LME example, 141
 - Measuring, Alternatives, 56
 - Platinum/gold ratio, 165–169
 - And price noise, 26
 - S&P, 4
 - Target,
 - defined, 13
 - example 54–55
 - Also see* Price shocks
- Volume, 205
- Yield, implied (*see* Implied yield)
- Yield curve trading, 174–179