

Index

A

- Aase
 - (1993) 352
 - (1999) 313
- Adam Smith (1776) 249
- advanced measurement approach
 - (AMA) 1, 23, 39, 105, 118, 149, 157, 169, 179, 237
- Agarwal and Naik (2000) 283
- Aggregate loss
 - correlation 32–5
 - distribution 16, 27, 43, 329, 333
- Anderson-Darling test 14, 69
- Arrow (1965) 352
- Artzner *et al* (1999) 77, 99

B

- Balkema-De Haan (1974) 59
- Bank for International Settlements (BIS) 204
- Basel Committee (2003) 25, 27–8
- Basel Committee on Banking Supervision
 - (2002) 313
 - (2003) 313
 - (2004) 313
- Basic Indicator Approach (BIA) 138, 151
- Baud *et al* (2002) 98
- Bayesian tree 186
- Bedford and Cooke (2001) 109, 116
- Beirlant, Teugels, and Vynckier (1996) 146, 152
- Berle and Means (1932) 249, 255

BIS

- (2001a) 202
- (2001b) 205
- Bolnik (2001) 344
- Brandts (2004) 312
- Brennan (1979) 343
- Bris and Cabolis (2002) 271
- Buhlmann (1984) 340
- Business Lines (BLs) 40

C

- Campbell (1991) 206
- Capital Asset Pricing Model (CAPM) 341
- Capital charge computations 27, 30
- Chang (1995) 352
- Chavez-Demoulin and Embrechts (2003) 100
- Christensen
 - (1992) 209
 - (1999) 313
- Coase (1937) 255
- Cooke (1991) 107–9, 117, 126, 153
- Cooke and Goossens (2000) 119
- Crédit Lyonnais
 - data 24, 32, 35
 - risk measurement system 26
- Cruz (2001) 333
- Culp (2001) 265
- Cummins & Geman (1994) 313
- Cummins, Lewis, and Phillips (1999) 327, 333
- Cummins, Lewis, and Ran (2005) 315, 325

Cummins, Lewis, and Wei (2005) 352
 Cummins, Phillips, and Smith (2001) 320

D

Danielsson *et al* (2000) 62
 Davison (1984) 72
 Davison and Smith (1990) 62
 De Fontnouvelle, Deleuss-Rueff, Jordan and Rosengren (2003) 85
 de Fontnouvelle *et al* (2003) 13
 (2004) 13, 97
 Decision maker (DM) 115
 Diebold *et al* (1998) 56, 98
 Doherty and Tinic (1981) 320, 352
 Dridge, Karolyi and Stulz (2004) 271

E

Easterbrook and Fischel (1996) 255
 Ebnother *et al* (2001) 97
 Efron and Tibshirani (1993) 97
 Embrechts and Samorodnitsky (2002) 97
 Embrechts *et al* (1997) 56, 63, 66, 96, 98
 (2003) 46, 56
 Embrechts, Kluppelberg, and Mikosch (1997) 333
 Engle, Hayes and Wang (2004) 264
 European Commission (2002) 313
 Event Types (ETs) 40
 "excess claims net premium" 87, 89
 Expected Shortfall 77
 Extreme Value Theory (EVT) 41, 55, 94, 297

F

Fama (1970) 271
 (1991) 271
 Fama and Jensen (1983) 249

Ferro and Segers (2003) 100
 Fisher and Tippet (1928) 57
 Fontnouvelle *et al* (2003) 13, 332
 Frachot and Roncalli (2002) 97–8
 Frachot, Moudoulaud & Roncalli (2003) 30
 Frechet curve 57
 Froot and Stein (1998) 322
 Froot *et al* (1993) 323
 Froot, Scharfstein, and Stein (1993) 320, 352
 Funds of hedge funds (FoHF) 279

G

Game theory 220–1
 Generalised Extreme Value distribution (GEV) 57
 Generalised Pareto Distribution (GPD) 58
 Goovaerts, de Vylder, and Haezendonck (1984) 340
 Grange (2000) 317
 Grove and Moffitt (2001) 210
 Gumbel and LogNormal cumulative distribution functions 51

H

Heston (1993) 352
 Hiatt (2000) 203, 209
 high-severity risk types 33
 Hoel (1971) 110
 homogeneous Poisson process (HPP) 296
 Homström and Kaplan (2003) 259
 Hosking and Wallis (1987) 66
 hyperbolic absolute risk aversion utility (HARA) functions 340

I

independent, identically distributed (iid) 46

J

James Reasons (1993) 186
 Jensen (1993) 249
 Jensen and Meckling (1976) 249

- Johnson, Kotz & Balakrishnan (1997) 26
- Jurczenko and Maillet (2001) 340
- K**
- Kahneman *et al* (1982) 116
- kernel density functions 50
- key performance indicators (KPI) 163
- key risk indicators (KRI) 163
- King (2001) 100
- Klugman, Panjer & Willmot (1998) 36, 330
- Kolmogorov-Smirnov test 14, 351
- Kozik and Larson (2001) 340
- Kraus and Litzenberger (1976) 340
- Kunreuther (1996) 321
- Kurowicka and Cooke (2004) 153
- L**
- La Porta, Lopez-de-Silanes, Schleifer and Vishny (1998, 2000) 252
- Leadbetter *et al* (1983) 81
- Leland (1999) 340, 342
- Longley-Cook (1998) 340
- Loss Data Collection Exercise (2002 LDCE) 40
- Loss distribution approach (LDA) 13, 24, 149, 181
- M**
- MacMinn and Han (1990) 320
- Marshall (2002) 13
- Mayers and Smith (1983, 1987) 320
- McNeil (1997) 333
- McNeil and Frey (2000) 99
- McNeil and Saladin (1997) 99
- Mean Excess Function (MEF) 63
- Medova (2000) 99
- Merton (1976) 339, 341, 352
- Merton and Perold (1993) 320
- MonteCarlo simulation 43, 100
- Moscadelli (2004) 14
- Myers (1999) 203, 209
- N**
- Naik and Lee (1990) 352
- Netter and Poulsen (2003) 265
- Non-homogeneous Poisson process 297
- Nystrom and Skoglund (2002) 99
- O**
- Operational loss distribution 135–7, 143, 172
- Operational Risk
- Coach (ORC) 223
- factors (ORFs) 157
- indicators 179, 181
- management (ORM) 227
- units (ORUs) 6
- P**
- Parametric dependency structure 13, 16–17, 19–20
- Pareto curves 55
- Peaks Over Threshold (POT) 57
- Peaks Over Threshold-
 Generalised Pareto
 Distribution (POTGPD) 42
- Peaks Over Threshold-Point
 Process representation
 (POT-PP) 42
- Perino (2003) 256
- Pickands (1975) 59
- Poisson frequency distribution 15
- Pratt (1964) 352
- Public Company Accounting
 Oversight Board (PCAOB)
 240
- R**
- Reese and Weisbach (2002) 271
- Reiss and Thomas (2001) 56–7, 73,
 79, 82, 87, 99
- Resnick (1987) 81
- Ribstein
 (2002) 255
 (2003) 263
- Risk-adjusted performance
 measurement (RAPM) 218
- Risk Drivers and Controls
 Approach (RDCA) 181

- Risk Management Group (RMG) 40
 Rootzen and Tajvidi (1997) 79, 82, 100
 Rootzen *et al* (1992) 100
 Rubinstein (1976) 341, 352
 Rubinstein, Brennan (1979) 342
- S**
 Samad-Khan (2003) 46
 Sample Mean Excess Function (SMEF) 62
 Sarbanes-Oxley Act 240
 legislation 248
 Savage (1954) 108
 Scenario Based Approach (sbAMA) 181
 Scharfstein, and Stein (1993) 320, 352
 Schneeweis and Spurgin (2000) 283
 severity Value at Risk (VAR_{sev}) 73
 Shleifer and Vishny (1997) 271
 Smith
 (1987) 98
 (1989) 81, 100
 Smith and Goodman (1996) 99
 Smith and Shively (1995) 100
 Smith and Stulz (1985) 320, 352
 standard LDA model 24–5, 30–1, 35–6
 standardised approach (STA) 23
 statistical goodness-of-fit tests 14
 Stulz (1996) 320, 352
- T**
 “tail estimator” 61, 76
 Taylor approximation 140, 147–8, 151
 Tufano (1998) 320
- U**
 unauthorised trading (UAT) 316
- V**
 Viner Derek (1991) 186
 Viney
 (1994) 209–10
 (2003) 202
- W**
 Wang
 (2000) 340
 (2002) 340
 Wold (1992) 209
 Working Group of the Insurance Companies (2001) 313
 Working Group of the Insurance Industry (2001) 307
- Y**
 Young and Ashby (2002) 321