AAA-rated assets
elastic supply of new AAA-rated paper, 30–32
hunger for, 29–30
Adrian, T., 416, 445
affine models, 256–259, 415–417
risk premia, 269–275
affine term structures
Gaussian VaR factors and, 155–156
Alesina, A., 70
Allen, F., 95
Amato, Jeffery, 21
Andrés, J., 508
Ang, A., 275, 288, 416, 457, 459, 485, 504
arbitrage, 303
interest rates and, 39
assets
AAA-rated assets
elastic supply of new AAA-rated paper, 30–32
hunger for, 29–30
consequences of low long-term interest rates and, 24
high government debt and asset substitutability across maturities, 32
increased regulatory demands to hold government bonds, 35–39
net asset value (NAV), 132
Atkeson, A., 391, 393, 405, 408
autoregressive gamma latent factors, 153–155
bailouts, 83
Baker, S. R., 331
banking sector, 84
contingent capital securities, 134–136
derivatives and, 124, 131
hedging by, 123
bankruptcy, 127
Bauer, M. D., 253
Baum, A., 56
Bear Sterns, 112
Belgium, 56
Bernanke, Ben, 28, 93, 94, 99, 101
Bernoth, K., 457, 458
Bi, H., 60
Bianchi, F., 204
Bjork, Tomas, 174
Black, Fischer, 244, 254, 284
Bloom, N., 331
BNP Paribas, 1
bonds
commercial, 38
government, see government bonds
interventions in bond markets, 83
Borri, N., 143
break clauses in derivatives contracts, 131
break even inflation rate (BEIR), 361–364, 366, 374, 379, 383, 428
Buiter, W., 59
Burity, P., 504
Calvo, G., 70
Cassola, N., 82
Cecchetti, S., 56
central banks, 82
European Central Bank (ECB), 57, 62, 82
prohibition of direct lending, 63
Chadha, J. S., 48, 62, 94, 218, 525
Chari, V. V., 61
Chen, R.-R., 260, 262
Chernov, M., 365, 417, 445
Christensen, Bent Jesper, 174
Christensen, J. H. E., 106, 174, 175, 395, 416
Clarida, R., 235, 331, 336
Cochrane, J. H., 60, 268, 327, 328, 334, 395, 396
Cole, H., 70
commercial bonds, 38
composite index of systemic stress (CISS), 69
compound auto-regressive (Car) processes, 141, 143, 164, 165
application to credit risk premia in Italian and Spanish sovereign yields, 160–163
assumptions, 146
autoregressive gamma latent factors, 153–155
computation of defaultable bond prices, 147–148
definition, 144
Gaussian VaR factors affine term structures and, 155–156 quadratic term structures and, 156–157 switching Gaussian VaR factors, 157–159
inference, 159–160
internal-consistency conditions, 149
Durré, A., 59, 65

economic growth and development interest rates, 21
Eggertson, G., 189
Ehrmann, M., 417
Engen, E. M., 505
European Central Bank (ECB), 57, 62, 65
European Financial Stability Facility (EFSF), 58, 85
European Stabilisation Mechanism (ESM), 58
European Systemic Risk Board (ESRB), 58, 85
European Union (EU)

Eggertsson, G., 457–459, 485–486
bootstrap procedure, 492
estimation strategy, 466–469
 extending the sample, 479–481
factor loadings along spread curve, 470
factors driving the spreads, 470
identification hypothesis, 490–492
impulse responses, 472–478
model, 459–462
parameter estimates, 469–470, 493
Proposition, 487–489
results, 469–478
Riccati difference equations, 486
robustness, 484–485
term structure model for defaultable bonds, 460–462
term structure model for non-defaultable bonds, 459
inflation compensation and inflation risk premia in euro area term structure of interest rates, 361–363, 383
data and estimation methods, 366–370
inflation compensation and inflation risk premia, 379–383
measurement errors and liquidity premium in euro area, 373–379
model setup, 364–366
model specification, 384–388
robustness check, 381–383
term structure of inflation risk premia, 363–370
sovereign debt and monetary policy in the euro area, 56–58

ECB actions, 72–82
institutional arrangements of EMU, 61–65
interaction between sovereign debt crisis and banks’ funding, 65–72
interplay between fiscal and monetary policies, 58–65
lessons learned, 82–86
sovereign debt crisis, 65–82
Stability and Growth Pact (SGP), 65
surprises in euro area and US term structures, 412–415, 446–447
data, 418–424
effect of surprises on interest rates, 424–427
effects of surprises on term structure, 437–441
estimation problem, 427–429
expected inflation and inflation risk premia during the crisis, 436–437
literature, 415–418
macroeconomic and monetary surprises, 419–424, 438–441, 450–451
model, 427–430
nominal and real affine term structure models, 415–417
nominal and real zero-coupon rates, 418–419
nominal term structure, 449–450
number of factors and robustness checks, 444–446
real term structure, 447–449
results of model, 430–437
role of monetary aggregates, 423–424
specification of the model, 451–452
surprises and term structure models, 417–418
surprises-augmented model, 429–430

Evans, M., 415, 428
expectations, 142
inflation, 433, 436–437
interest rates, 22, 34
expectations hypothesis (EH), 100, 105, 114–116, 142, 303
rational, 272, 273
Taylor rule and, 334, 335
unstable, 39

factor models, see intelligible factor models
Paraglia, Elisa, 46
Faust, J., 391, 404, 409
Federal Reserve
implementation of monetary policy, 301–302
debt, 519, 523, 526
hyperinflation, 61
intelligible factor models and, 204, 213
interest rates, 60, 506, 507, 518, 521, 524, 525
sovereign yield spreads in Gaussian macro-finance term structure model environment, 462–466, 470, 473, 477, 480, 481, 485
Gertler, M., 331, 336
Gibson, R., 504
Gourieroux, C., 153
government and the state bonds, see government bonds
debt, see debt problems
dependence, 343
support for banking sector, 1

government bonds, see government bonds
dependence, 343
support for banking sector, 1
demand for, 19
dimensionality of yield curves on UK government bonds, 169–192
increased regulatory demands to hold government bonds, 35–39
index linked, 412
supply, 30–32

surprises in euro area and US term structures, 412–415, 446–447
data, 418–424
effect of surprises on interest rates, 424–427
effects of surprises on term structure, 437–441
estimation problem, 427–429
expected inflation and inflation risk premia during the crisis, 436–437
literature, 415–418
macroeconomic and monetary surprises, 419–424, 438–441, 450–451
model, 427–430
nominal and real affine term structure models, 415–417
nominal and real zero-coupon rates, 418, 419
nominal term structure, 449–450
number of factors and robustness checks, 444–446
term structure, 447–449
results of model, 430–437
role of monetary aggregates, 423–424
specification of the model, 451–452
surprises and term structure models, 417–418
surprises-augmented model, 429–430
US federal funds market, 299–301

Great Moderation, 21
Greecce, 67, 68
sovereign yield spreads in Gaussian macro-finance term structure model environment, 462–466, 470, 477, 478, 481, 485, 486
Greenspan, Alan, 331, 340, 392, 403
Guidolin, M., 100
Gürkaynak, R. S., 418
‘habitat’ choices of investors, 29–30
Hagen, J. von, 457, 458
Hall, Bronwyn, 21
Hamilton, J. D., 253, 268, 271, 275, 281, 305
Hannoun, Hervé, 39
Haubrich, J., 416, 445
hedging, 123
herding effects, 39
Hicks, John, 21
Hollo, D., 69
Hoogduin, L. H., 50
Hördal, P., 417, 445
housing market, 111, 125, 127, see also mortgages
Howson, Susan, 41
Huang, J. Z., 142
Huang, M., 142
Hubbard, G. R., 505
hyperinflation, 61
Iania, L., 392, 396, 408
inflation
breakeven inflation rate (BEIR), 361, 363, 364, 366, 374, 379, 383, 428
expectations, 436–437
hyperinflation in Germany, 61
inflation compensation and inflation risk premia in euro area term structure of interest rates, 361–363, 383
data and estimation methods, 366–370
inflation compensation and inflation risk premia, 379–383
measurement errors and liquidity premium in euro area, 373–379
model setup, 364–366
model specification, 384–388
robustness check, 381–383
term structure of inflation risk premia, 363–370
predictive content of yield curve for inflation, 390–393, 408–409
data, 396–397, 399
econometric setting, 397
empirical results, 399–408
Index

estimation, 396–399
extended macro-finance (EMF) model, 392, 394–396, 408
inflation forecasting, 404–408
macro-finance framework, 393–395
macro-finance model with financial factors, 393–396
yield spread decomposition, 399–404
United States of America, 107
Ingersoll, J. E., 256, 260
insurance, 36, 122, 125
debt management and fiscal insurance, 46
intelligible factor models, 200–201, 213
common international trends, 208
common stylized facts, 205
data, 204
recent literature, 203–204
review, 201, 203
simpler alternatives, 208
key rates, 210–211
principal components analysis and Nelson–Siegel model, 211–213
interest rates, 2, 19, 20, 50–52
classical theory, 115
consequences of large fiscal imbalances on long-term interest rates, 504–508
data, 518–520, 527–531
econometric strategy, 515–518
empirical analysis, 518–524
impulse response analysis, 520–523
policy implications, 525–527
sample extension of model to test effects of crisis, 523–524
theoretical framework, 508–515
consequences of low long-term rates, 22
cheaper leverage, 23–24
increased interest rate exposure, 25
increased tolerance for fiscal deficits, 24–25
effect of surprises on, 424–427
estimating policy rule from money market rates when target rate changes are lumpy, 216–219, 245
challenges ahead, 244–245
data, 225
effective spread, 229–230
estimation, 225–228
filter and likelihood, 228
link with economic conditions, 239–242
measurement equations, 226–228
modelling short-term interest rates, 219–223
policy announcement at the lower band, 242–244
results, 229–239
target rate models, 221–223
term structure models, 223–225, 232–239
expectations, 22, 34
expectations hypothesis (EH), 100, 105, 111–116, 142, 303
Germany, 60, 506, 507, 518, 521, 524, 525
government debt management and long-term interest rates, 44–50
coordination between central banks and debt managers, 47–50
macroeconomic responses of government debt managers, 45–47
high government debt and asset substitutability across maturities, 35, 51
historical overview of real long-term interest rates, 20–22
inflation compensation and inflation risk premia in euro area term structure of interest rates, 383
data and estimation methods, 366–370
inflation compensation and inflation risk premia, 379–383
measurement errors and liquidity premium in euro area, 373–379
model setup, 364–366
model specification, 384–388
robustness check, 381–383
term structure of inflation risk premia, 363–370
Italy, 506, 507, 518, 520, 522, 524, 525
long-term interest rate as policy variable, 51
Keynes and the National Debt Enquiry, 40–42
monetary policy and long-term interest rate, 39–45
Radcliffe Report, 42–44
Tobin/Friedman and, 44–45
long-term interest rate as policy victim, 50
‘habitat’ choices of investors, 29–30
macroeconomic factors, 28
United Kingdom, 21, 60
Keynes and the National Debt Enquiry, 40–42
Radcliffe Report, 42–44
Index

United States of America, 20, 27, 60, 93, 114, 116, 506, 508, 518, 520, 523, 525
funds rate target and forward guidance, 98–100

Ireland, 67
Ireland, P. N., 383

Italy, 56
credit risk premia in sovereign yields, 160–163
debt problems, 519, 523, 526
interest rates, 506, 507, 518, 520, 522, 524, 525
sovereign yield spreads in Gaussian macro-finance term structure model environment, 457, 470, 473, 478, 480, 481, 485

James, J., 253, 254
Japan, 113, 284
Jong, F. de, 255
Joslin, S., 253, 268, 271–273, 275, 395
Joyce, M. A. S., 35, 103, 189, 364, 369, 391, 415, 416
Kahn, R. F., 43
Kan, R., 257
Kehoe, P., 61
Kehoe, T., 70
Keynes, John Maynard, 20, 40–43, 47, 51
Kim, D. H., 244
Kinoshita, N., 505
Kochin, Levis A., 176

Lando, D., 395
Laubach, T., 505
Le, A., 258, 275
Leeper, E., 59, 60
Lehman Brothers, 65, 81, 91, 96, 113, 115
Leith, C., 60
Lengwiler, Yvan, 201, 208
Lenz, Carios, 201, 208
leverage, consequences of low long-term interest rates and, 23–24
Levin, A., 333
Li, C., 175, 203, 204, 212
liabilities: present discounted value (PDV), 37

Libor market model, 255
liquidity crisis, 1
liquidity effect, 91
liquidity premia, 42
measurement errors and liquidity premium in euro area, 373–379
liquidity problems, 83
liquidity risk, 2
liquidity rules, 37
liquidity trap, 40
Litterman, R., 259, 431
Liu, J., 395
Longstaff, F., 143, 377, 458
Lyrio, M., 396

McCulloch, J. Huston, 169, 172, 175, 176
Mandal, R. J., 333
Marattin, L., 458, 485
master trusts, 130
maturity: high government debt and asset substitutability across maturities, 32–35, 51
maximum likelihood estimation (MLE), 259, 281
Medova, E. A., 288
method-of-moments-based estimation, 260
Migiakis, P. M., 458
millennium bug (Y2K), 95
Mills, Terence, 21
Mönch, E., 204
monetary dominance, 33
monetary policy, 25–28, 504
case of the euro area, 56–58
ECB actions, 72
institutional arrangements of EMU, 61–65
interaction between sovereign debt crisis and banks' funding, 65–72
interplay between fiscal and monetary policies, 58–65
lessons learned, 82–86
sovereign debt crisis, 65–82
implementation, 301–302
long-term interest rate and, 39–45
Keynes and the National Debt Enquiry, 40–42
Radcliffe Report, 42–44
Tobin/Friedman and, 44–45
open market operations, 2, 40, 44, 81, 308
policy uncertainty, 346–356
surprises, 438–439
Taylor rule and, 326–329
background and related literature, 329–331
cross-sectional Taylor rules, 339–342
data, 331–332
identification of Taylor rules with forecast data, 332–335
individual Taylor rules, 342–346
time-invariant consensus Taylor rules, 335–339
Index

US Federal Reserve’s response to financial crisis, 90–91, 115–116
conventional versus unconventional monetary policy, 91–93
counterproductivity of QE and Operation Twist, 106–110
funds rate target and forward guidance, 98–100
how Fed should have responded, 110–115
post-Lehman monetary policy, 96–110
pre-Lehman monetary policy, 93–96
quantitative easing, 100–105
sterilized lending, 94–96
zero lower bound (ZLB) constraint, 39
Monfort, A., 143, 148, 160
moral hazard, 86, 133
mortgages, 125
interest rates and, 34
mortgage-backed securities, 94
RMBS master trusts, 130
structured investment vehicles (SIVs), 128, 129
Mueller, P., 365, 417, 445
multi-horizon Laplace transform, 145
National Debt Enquiry (NDE), 40–42
Nawalkha, S. K., 253, 256
Nelson, Charles R., 172, 173, 211, 255
net asset value (NAV), 132
New Keynesian economics, 189, 334
Northern Rock, 130
Ohanian, L. E., 391, 393, 405, 408
open market operations, 1, 40, 44, 81, 308
Operation Twist, 48, 91, 92, 114
Orszag, P., 505
Paesani, P., 458, 485, 506
Pan, J., 460
Pastor, L., 331
time series model, 46
management corporate bond portfolio, 122
Pericoli, M., 418, 430
Phil, H., 59
Piazzesi, M., 221, 223, 225, 253, 268, 275, 288, 395, 396, 417, 457, 459, 485
policy rules: estimating policy rule from money market rates when target rate changes are lumpy, 216–219, 226–228, 245
challenges ahead, 244–245
data, 225
effective spread, 228, 229
estimation, 225–228
filter and likelihood, 228
link with economic conditions, 239–242
measurement equations, 226–228
modelling short-term interest rates, 219–223
policy announcement at the lower band, 242–244
results, 229–239
target rate models, 221–223
term structure models, 223–225, 232–239
certainty uncertainty, 346–356
portfolio choice:
uncertainty and, 45
Portugal, 67
historical yield curve model, 251–253, 287
affine models, 256–259
risk premia, 269–275
literature review, 253–259
model evaluation:
another candidate, 262–265
basic considerations, 259–260
care in likelihood optimization, 275–277
conditional likelihood, 280–282
first candidate specification, 260–262
Gaussian models, 282
identification, 266–269
lessons learned, 282–283
negative rates, 280
negative yield curves, 277–279
risk premia in affine models, 269–275
unconditional likelihood, 283
unit root solutions, 279–280
solution, 283–287
out-of-sample forecasts, 285–287
Praet, Peter, 36
present discounted value (PDV) of liabilities, 37
principal components analysis, 211–213
UK yield curve, 177
probabilities of default (PDs), 142
quadratic term structures:
Gaussian VaR factors and, 156–157
quantitative easing (QE), 2, 47
United Kingdom, 180–189
United States of America, 48, 90, 100–105, 114
counterproductivity of QE and Operation Twist, 106–110
Radcliffe Report, 42–44
Ramdaswamy, Srichander, 52
Index

542  

rational expectations, 272, 273  
Rebonato, R., 253, 256  
recovery of market value assumption, 148  
regulation, 121, 126  
increased regulatory demands to hold government bonds, 35–39  
Reinhart, C., 56  
Remolona, E. M., 424  
Renne, J.-P., 143, 148, 160, 245  
repo and federal funds market in US, 293–296, 323–324  
background, 296–302  
federal funds market, 299–301  
implementation of monetary policy, 301–302  
repo market, 296–298  
empirical framework, 303–310  
preliminary statistical analysis, 302–303  
results of study  
early crisis (August 2007 – December 2008), 315–319  
extended period (December 2008 – June 2010), 319–323  
normal times (2002–2007), 310–315  
repurchase agreements, 296  
Risa, S., 415  
risk, 133  
arbitrage and, 39  
premia, see risk premia  
reputational risks in tail events, 128–133  
risk-neutral modelling  
assumptions, 146  
autoregressive gamma latent factors, 153–155  
computation of defaultable bond prices, 147–148  
Gaussian VaR factors, 155–159  
internal-consistency conditions, 149  
non-zero recovery rate, 148–149  
P-dynamics, 149–151  
Q-dynamics, 149–151  
sdf, 149–153  
short rate, 149–151  
sovereign risk, 143  
tail risks with counterparty risk correlation, 122–127  
risk premia, 2, 142, 391  
affine models, 269–275  
credit risk premia, 142  
in Italian and Spanish sovereign yields, 160–163  
expected inflation and inflation risk premia during the crisis, 436, 457  
inflation compensation and inflation risk premia in euro area term structure of interest rates, 361–363, 383  
data and estimation methods, 366–370  
inflation compensation and inflation risk premia, 379–383  
measurement errors and liquidity premium in euro area, 373–379  
model setup, 364–366  
model specification, 384–388  
robustness check, 381–383  
term structure of inflation risk premia, 363–370  
term premia, 142  
RMBS master trusts, 130  
Bogoff, K., 56  
Roll, R., 377  
Ross, S. A., 256, 260  
Rudebusch, G. D., 175, 253, 331  
Salotti, S., 458, 485  
Sarno, L., 100, 339  
saving glut thesis, 28, 30–32  
Scheinkman, J. A., 259, 431  
Schuknecht, L., 457, 458  
Schwarz, A. J., 95  
Schwarz, K., 377  
Scott, L., 260, 262  
shortage of safe assets thesis, 32  
Siegel, Andrew F., 172, 173, 203, 211, 255  
Singleton, K. J., 148, 244, 253, 257, 260, 262, 268, 271–273, 275, 283  
Smets, F., 56  
solvency problems, 83  
sovereign risk, 143  
Spain, 67  
credit risk premia in sovereign yields, 160–163  
sovereign yield spreads in Gaussian macro-finance term structure model environment, 143, 462–466, 470, 477, 478, 480, 481, 485, 486  
Steeley, J. M., 172, 175, 178  
stereotyped lending, 94–96  
stoicastic discount factor (sdf), 142, 149–151  
specification, 151–153  
stress tests, 127, 133, 134, 136  
structured investment vehicles (SIVs), 128, 129  
substitution  
high government debt and asset substitutability across maturities, 32–35, 51  
Summers, Lawrence H., 52
Index

number of factors and robustness
checks, 444–446
real term structure, 447–449
results of model, 450–457
role of monetary aggregates, 423–424
specification of the model, 451–452
surprises and term structure models,
417–418
surprises-augmented model, 429–430
terrorism, 96
Thorton, D. L., 93, 100, 106
time inconsistency problems, 136
Tirole, Jean, 42
Tobin, James, 44, 48
Trabandt, M., 56
Tristani, O., 417, 445
uncertainty
interest rates and, 35, 39
policy uncertainty, 346–356
portfolio choice under, 45
Taylor rule and, 326–329
background and related literature,
329–331
cross-sectional Taylor rules, 339–342
data, 331–332
identification of Taylor rules with
forecast data, 332–335
individual Taylor rules, 342–346
time-invariant consensus Taylor rules,
335–339
unemployment, 108, 113, 116
unit root solutions, 279–280
United Kingdom
dimensionality of yield curve on
government bonds, 169–177
data and results, 177–192
dimensions of cross section of yields
before and after 2008, 178–180
dimensions of the evolution of the
yield curve, 189–192
estimating term structure, 171–176
principal components analysis, 177
stability of yield curve dimensions
before 2008, 180
yield curve dimensions and effects of
quantitative easing, 180–189
intelligible factor models and, 204, 213
interest rates, 21, 60
Keynes and the National Debt
Enquiry, 40–42
Radcliffe Report, 42–44
quantitative easing (QE), 180–189
United States of America
debt problems, 25, 520, 523
economic growth and development,
108, 113, 116, 239–242
government debt management, 45–47
housing market, 111, 125, 127
inflation, 107
intelligible factor models and, 204, 213
interest rates, 20, 27, 60, 93, 114, 116,
506, 508, 518, 520, 523, 525
funds rate target and forward
guidance, 98–100
monetary policy, 26–28, 301–302
Taylor rule and, 326–329
Operation Twist, 48, 91, 92, 106–110,
114
quantitative easing (QE), 48, 90,
100–105, 114
counterproductivity of QE and
Operation Twist, 106–110
repo and federal funds market, 293–296,
323–324
background, 296–302
empirical preliminaries and
framework, 302–310
results of study, 310–323
response to financial crisis, 90–91,
115–116
conventional versus unconventional
monetary policy, 91–93
counterproductivity of QE and
Operation Twist, 106–110
funds rate target and forward
guidance, 98–100
how Fed should have responded,
110–115
post-Lehman monetary policy,
96–110
pre-Lehman monetary policy, 93–96
quantitative easing, 100–105
sterilized lending, 94–96
sub prime market, 1
surprises in euro area and US term
structures, 412–415, 446–447
data, 418–424
effect of surprises on interest rates,
424–427
effects of surprises on term structure,
437–441
estimation problem, 427–429
expected inflation and inflation risk
premia during the crisis, 436–437
literature, 415–418
macroeconomic and monetary
surprises, 419–424, 438–441,
450–451
model, 427–430
### Index

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>nominal and real affine term structure models</td>
<td>415–417</td>
</tr>
<tr>
<td>nominal and real zero-coupon rates</td>
<td>418–419</td>
</tr>
<tr>
<td>nominal term structure</td>
<td>449–450</td>
</tr>
<tr>
<td>number of factors and robustness checks</td>
<td>444–446</td>
</tr>
<tr>
<td>real term structure</td>
<td>447–449</td>
</tr>
<tr>
<td>results of model</td>
<td>430–437</td>
</tr>
<tr>
<td>role of monetary aggregates</td>
<td>423–424</td>
</tr>
<tr>
<td>specification of the model</td>
<td>451–452</td>
</tr>
<tr>
<td>surprises and term structure models</td>
<td>417–418</td>
</tr>
<tr>
<td>surprises-augmented model</td>
<td>429–430</td>
</tr>
<tr>
<td>unemployment</td>
<td>108, 113, 116</td>
</tr>
<tr>
<td>unpleasant monetary arithmetic</td>
<td>58</td>
</tr>
<tr>
<td>value-at-risk (VaR) measures</td>
<td>143</td>
</tr>
<tr>
<td>Gaussian VaR factors</td>
<td></td>
</tr>
<tr>
<td>affine term structures and</td>
<td>155–156</td>
</tr>
<tr>
<td>quadratic term structures and</td>
<td>156–157</td>
</tr>
<tr>
<td>switching Gaussian VaR factors</td>
<td>157–159</td>
</tr>
<tr>
<td>Vasicek, O.</td>
<td>256</td>
</tr>
<tr>
<td>vector auto-regression (VAR)</td>
<td>256, 273</td>
</tr>
<tr>
<td>Verdelhan, A.</td>
<td>143</td>
</tr>
<tr>
<td>Veronesi, P.</td>
<td>331</td>
</tr>
<tr>
<td>Walker, T. B.</td>
<td>59, 60</td>
</tr>
<tr>
<td>Warnock, F.</td>
<td>28</td>
</tr>
<tr>
<td>Warnock, V.</td>
<td>28</td>
</tr>
<tr>
<td>wartime finance</td>
<td>41</td>
</tr>
<tr>
<td>Watson, Mark</td>
<td>21, 22, 52</td>
</tr>
<tr>
<td>Webber, N.</td>
<td>253, 254</td>
</tr>
<tr>
<td>Werner, T.</td>
<td>416, 445</td>
</tr>
<tr>
<td>Wieland, V.</td>
<td>333</td>
</tr>
<tr>
<td>Williams, J. C.</td>
<td>333</td>
</tr>
<tr>
<td>Wolswijk, G.</td>
<td>457, 458</td>
</tr>
<tr>
<td>Wood, Geoffrey E.</td>
<td>21</td>
</tr>
<tr>
<td>Woodford, M.</td>
<td>91, 99, 189</td>
</tr>
<tr>
<td>Wright, J. H.</td>
<td>103, 391, 404, 409</td>
</tr>
<tr>
<td>Wu, H.</td>
<td>416, 445</td>
</tr>
<tr>
<td>Wu, J. C.</td>
<td>253, 268, 271, 275</td>
</tr>
<tr>
<td>zero lower bound (ZLB) constraint</td>
<td>39</td>
</tr>
<tr>
<td>Zhu, H.</td>
<td>253, 268, 271–273, 275</td>
</tr>
</tbody>
</table>