acceptances, day of 43
account, unit of 7–8, 13
adaptation, institutional 235–242, 243–244
Adenauer, K. 153–154
agents of change 19, 20–21
Aldrich–Vreeland Act (US) 98
Althorp, Lord 63
Alvisi–Biagini report 76
American Bankers Association 181
American model 95–100, 105
Andreatta, B. 155
Angelini, P. 236, 284
anticipated inflation 32–33
Argentina 191
Aristotle 5–6, 261–262
Asian crisis 196, 197
autonomy xx–xxi, xxvii, 115, 161
central banks between submission and 129–135
credibility of monetary policy 152–156, 159–160
open economy trilemma 137, 166–167, 168
Baffi, P. 156
balance of payments current account 190, 191
Banca Generale 102
Banca Nazionale nel Regno d’Italia 74–75, 76, 77
Banca Nazionale Toscana 74, 76
Banca Romana 74, 76, 77, 102
Banca Toscana di Credito 74, 76
Banco di Napoli 74
Banco di Sicilia 74
Banco di Venezia 45
tancor 180, 182
Bank of Canada 275
Bank Charter Act 1844 (England) xxvii, 51–52, 65, 86, 95, 236
bank concentration 93–94, 245–248, 257
bank deposits (bank money) xxvi, 14–15, 51, 79–112, 113, 178, 221
American model 95–100, 105
ascendancy of the central bank 110–112
banking crises of the 1930s and credit controls 105–110
continental European model 100–105
peculiarity as a payment technology 82–85
Treasury letters and the debate on the nature of the Bank of England 86–95
Bank Deutsche Länder (BdL) 153–154
banknote issue 60, 62–65
debate on the nature of 86–95
non-convertibility of banknotes 60, 62
Bank of France 65, 100–101
Bank for International Settlements (BIS) 195
Bank of Italy 73, 74, 102–105, 139
autonomy 154–155
Bank of New York 234–235
Bank of Stockholm 49, 50
Bank War (US) 66, 68–70
bankers’ drafts 83
banking commission 107
banking crises 84–85, 117
comparison between UK and the US 111–112
England 87–89
Italy 104
of the 1930s 105–107, 111
United States 96, 97–98
The age of central banks

banking inspectorate 107
Banking School 60–62, 63, 105
banking supervision 254, 255
Bank of England 95
Federal Reserve 82, 95, 100, 108
institutionalization of 108, 109, 271
banknotes xxvi–xxvii, xxix, 14–15, 49–78, 80, 82–83, 113, 220
bearer security 52–55
convertible banknotes as a payment technology 55–59
inconvertible xxvii, 10, 14–15, 82
see also fiat standard
monetary controversies in the early 19th century and the English model 59–65
pyramid model and 226
spread of the English model and note issue in Italy 72–78
United States 50, 58, 65–72, 73, 82, 96–97
bankruptcy, aversion to the concept of 54
bankruptcy law 108–109
Banque de Savoie 101
Barcelona 40
Baring and Co. 92–93
Barro, R.J. 151–152
Basel Committee on Banking Supervision 195–196, 199, 234
Basel II accords 255
Bean, C. 256
bearer security xxix, 35, 52–55
best remedy criterion 7
Biddle, N. 66, 68–70
bill of indemnity 87, 269
bills of exchange 91
bimetal standard 116–117
bipolarism, imperfect 214–218
Bisanzone exchange fairs 43–44
Bloch, M. 13, 49
border effect 167
Bordo, M. 110, 111–112, 127
Boughton, J. 188
Boulding, K.E. 259
bounded rationality 27
Boyer-Xambeu, M.-T. 44, 46
brand-name capital
distinguishability 23, 31–34
investment in 251–252
Breton Woods system 135–137, 143, 165–166, 205, 207, 215, 253
collapse 144–147
cooperative regime 177, 180
Broz, L. xxiv
Bruges 40, 41
Brussels international conference 132
Buchanan, J. xxi
budget deficits
EU and excessive 211, 212
persistent in the US 183, 184
stagflation 148–150
Bullion Report 62
Bundesbank 153–154, 207, 208, 212–213
Burns, A.F. 148, 276
Cameron, R. 13, 59, 80
Canada 111
Bank of Canada 275
Canovai, T. 78, 268
Capie, F. 81
capital controls 181, 182
capital mobility 188, 215–216
liberalization of capital movements in the IMF Articles of Agreement 202–203
open economy trilemma 137, 166–167, 168
Carli, G. 148
Casa di San Giorgio 40
Cassel, G. 121–122
catallactics 5–6
catalytic official finance (COF) 189–193
ceiling on growth in bank loans 142
central counterparties 241
centralization 49, 51
centralized accounts 223, 226
Champagne exchange fairs 43
change agents 19, 20–21
cheapest cost avoider 194
cheques xxvi, 80, 83
CHIPS 233, 234
Ciampi, C.A. 154
Cipolla, C. 12–13, 20, 170, 250
civil law 35
clearing houses 97, 98
clearing systems (netting systems) 222, 223–225, 236–237
real-time 232
Clower, R.W. 8, 11
coalitions 20–21
Coase, R.H. 6
Cohen, B. xxxi
coinage 14–15, 18, 55, 59
collateral requirements 244–245
collective action xxiv, xxviii, 24–25
collective action clauses 193, 194
commercial law 35, 52–53
Committee on Interbank Netting
   Schemes of the Central Banks of the
   Group of Ten countries 238, 239
Committee on Payment and Settlement
   Systems (CPSS) 238, 242, 243–244
Committee of Twenty 147
commodification of risks 228
commodity money 10–15, 17–18, 35, 219
   international 170–171
Commons, J.R. 6
Compagnia dei Covoni 42
compatible expectations 4–5, 27
competition
   Klein model 29–34
   vs monopoly and banknote issue in
   England 60–63
compliance with international standards
   199–200, 201, 281
Comptoir d’Escompte 101
concentration 93–94, 245–248, 257
concerted bailouts 92–93, 188–189
conditionality 192, 199–200
confidence/trust xxv, 9, 16, 45, 142,
   249–250, 259
   Klein’s model 30–34, 169
   problem of creating 16–26
   confidence-creation costs 27–28
   confidence-creation mechanisms 9–10
   conservative central banker 152–153
   consolidation 93–94, 245–248, 257
consortia 104
consortium regime 175–179, 204–214,
   216–218
consumer markets 12
continental European model 100–105
Contingent Credit Lines (CCL) 190
Continuous Link Settlement Bank 226,
   246, 247
Continuous Linked Settlement (CLS)
   246–247, 285
contract theory 9
contracts, incomplete 12–14
contractual defences 56–57
control of other banks 82
convergence criteria 208, 282
convertibility 10
   IMF and return to 183
   of legal tender into commodities 150
   non-convertibility of English
   banknotes 60, 62
convertible banknotes xxvii, 14–15,
   49–78, 113
see also banknotes
convertible deposit money see bank
   deposits (bank money)
cooperation xxii–xxiii, 20–21
cooperative regime 175–179, 215–216,
   218
   informal 195–204
   institutionalized 180–195
   correspondent accounts 223, 226, 232
   costs of payment technology 10–16
   maladaptation costs 12–13, 27–28
   transaction costs 12, 27–28
Cottarelli, C. 159
Council of Economic Advisers (US) 150
country banks 60, 62, 65
coupons, obligatory 42
Crawford, M.H. 261–262
credibility of monetary policy 142–160
credit xxvi–xxvii, 14–15
   multilateral 233–235
   pre-industrial credit payment
   technologies 35–46, 171
credit certificates 97
credit chains 36–9
credit controls 105–110, 142, 275
Crédit Lyonnais 101
credit management 61
credit risk 223, 224, 225, 233–234
credit transfer 83
Credito Mobiliare 102
crises xxviii, 23–24, 28–29, 251
   banking crises see banking crises
   crisis of the fiat standard 144–147
   debt crises 188–195
   EMS 212–213
   international institutions and 176,
   188–195
   and intraday credit 234–235
cross-border payments 226
The age of central banks

Cunliffe, W. 131
Cunliffe Committee 120, 128
Currency Boards 98
currency in circulation 118, 119
Currency School 60–62, 63, 64, 105

Dam, K.W. 114
Davanzati, B. 44
daylight credit see intraday credit
debt, national 118, 119
debt crises 188–195
debt restructuring 193, 194
‘decapitated pyramid’ hypothesis 248
depending, financial 227–231, 232
delayed settlement 221, 224–225
Delplace, G. 44, 46
delivery-versus-payment (DVP) schemes
237, 240–241
Delors Plan 208, 209
democracy xxxi, 251
Demsetz, H. xxvii–xxix
Denmark 58
deposit banks 39–40
deposit insurance 85
derivatives 228–229, 232, 284
destabilizing speculation 124–125
determinism xxx
developing countries 159–160, 161
discount rate 140
Bank of Italy 102–103
England (bank rate) 90–93
government control in Italy 75, 76
dollar, US 143, 174, 186
dollarization 216–217
Dowd, K. xxi, 151
Draghi, M. 197
Durkheim, E. 249
dynamic hedging 232, 284

Ecofin council 212
Economic and Monetary Union (EMU)
177, 204, 214
economic policy
role of 127–128
sovereignty of national economic
policy 136
effectiveness xxviii–xxx, 250
efficiency xxviii–xxx, 19, 250
inefficient money paradox 13
Eichengreen, B. 124, 129, 216, 252
Elkin, W.A. 99, 153
Emminger, O. 207
employment structure 145, 147
endorsements 37–38
England 57, 80, 82
Bank Acts of 1844–45 65
Bank Charter Act 1844 xxvii,
51–52, 65, 86, 95, 236
Bank of England see Bank of
England
bearer security 54–55
monetary controversies in the early
19th century 59–65
Treasury letters and the debate
on the nature of the Bank of
England 86–95
US war of independence 68
see also United Kingdom (UK)
English model 51, 59–65, 79–80, 82, 86, 105
spread of and note issue in Italy
72–78
entrepreneurs 20
epistemic community 199
equity 53
euro 204, 209, 214
euro-ization 217
European Central Bank (ECB) 208, 211
European model 100–105
European Monetary Cooperation Fund
(EMCF) 206
European Monetary Institute 208
European Monetary System (EMS) 174,
204, 206–7
European Payments Union (EPU) 205
European System of Central Banks
(ESCB) 156, 165, 204, 210–211, 241
European Union (EU) 203, 204–214, 217
Directives to reduce payment system
risk 238, 284
history of monetary integration
204–210
Single European Act 1986 204
single market 203
Stability and Growth Pact 209–210,
211–214
evolutionary path of monetary
institutions 22–26, 28–29
exchange contracts 41
exchange fairs 42–44, 225
exchange rate regimes 172–174
  Bretton Woods system 136–137, 143–147
  fixed exchange rates 143–147, 173–174
  flexible exchange rates 173–174
  floating exchange rates 135, 252
  open economy trilemma 137, 166–167, 168
exchange-rate stabilization funds 128
exchanges, day of 43
expectations
  and banking panics 84
  compatible 4–5, 27
explicit charges for intraday credit 244–245
external mandate 160
fairs, exchange 42–44, 225
Fazio, A. 257
Federal Open Market Committee 139
Federal Reserve System xxiv, 66, 74, 82, 105, 138–139
  banking supervision 82, 95, 100, 108
  creation of 95–100
  gold standard 123–124
  intraday credit 233
Fedwire 232, 233, 240
Ferguson Report 245, 247
  crisis of and credibility of monetary policy 142–160
finality rules 36–39, 238–239
Financial Action Task Force (FATF) 199
financial deepening 227–231, 232
financial innovation 228–229
  and the payment system 231–235
financial interrelations ratio (FIR) 229
financial liberalization 156–157, 188, 228, 254
financial repression 227–228
Financial Sector Assessment Program (FSAP) 199
Financial Stability Forum 197–198, 258, 281
  financial support interventions 199–200, 201
financial system 252, 255–256
First Bank of the US 49, 66, 67–68
First World War 118–120, 131–132, 140
fiscal theory of central banking xxi–xxii, xxiii, xxiv–xxv
Fisher, I. 113
fixed exchange rates 143–147, 173–174
Flandreau, M. 117
flexible exchange rates 173–174
floating exchange rates 135, 252
Florence 41, 44, 170
Fodor, G. 45
foreign exchange controls 128, 137
foreign exchange markets, volume of trade in 230
foreign ownership 200–201
formalization 82
fragmentation 96
France 44, 50, 53, 58, 72, 73
  Bank of 65, 100–101
  gold standard 122–123, 124
free banking 264–265
free-banking school 49, 150–151, 250
Friedman, M. 11, 23, 151
functionalism 18
futures 230
Galbraith, J.K. 16
Galgano, F. 22, 35
Galiani, F. 45
game theory 20–21
General Arrangements to Borrow (GAB) 185–186, 187
general equilibrium models 4
Genoa 40, 44
Genoa International Monetary Conference 122, 272–273
Germany 58, 72, 73, 153–154, 207
  Bundesbank 153–154, 207, 208, 212–213
  mark 143, 174
  Reichsbank 101–102, 153
Giannini, C. 159, 236, 284
Giavazzi, F. 213, 282
Gillard, L. 44, 46
giro banks 45–46
Glasner, D. xxi, 151
Glorious Revolution 50, 54
Gold Commission 150
gold exchange standard 122–123, 133
gold pool 144–5
gold reserves 93
Goldin, C. 127
Goldsmith, R. 229
Goodhart, C.A.E. xxii–xxiv, 81, 110, 258
Gordon, D.B. 151–2
Goschen, G.J. 92, 93
government
  central banks between autonomy
  and submission 129–35
  Great Depression and the role of
  127–128
see also state
Great Britain see England; United Kingdom
Great Depression 106, 114, 124–129, 133, 273
greenbacks 71, 267
Greif, A. 20–21
gross settlement systems 222, 223–225, 236–237
  real-time 237, 239–240
Group of Ten (G-10) 185, 238
  and consolidation 245
  core principles for payment systems
  241–242, 243–244
Group of Thirty 241
guilds, merchant 21–22
Hahn, F. 4
Hamilton, A. 50, 58, 67, 267
Hammond, B. 66, 69, 267
Hankey, T. 89
hard law 202–204
Hayek, F. von xxi, 150–151
hedging, dynamic 232, 284
Helleiner, E. 215, 256
Herstatt Bank 234, 280
Herstatt risk 242, 246, 280
Hicks, J.R. xxvi, xxx, 3, 20, 219, 249, 278
high finance 28
Hirsch, F. 257
Hobsbawm, E. 127
holder in due course 37, 38
Holland, L. 89
holography, constraints of 53
households’ net financial wealth 158, 159
Humphrey, D. 226–227, 234
Humphrey–Hawkins Act 1978 (US) 157
imaginary money 13
imitative processes 26
immediate settlement 221, 224–225
imperfect information 12–14, 84
implicit contract 242
‘in bank’ payments 39–40, 83
incentives 198–201
  strengthening 201
incomplete contracts 12–14
inconvertible banknotes xxvii, 10, 14–15, 82
see also fiat standard
Independent Treasury (US) 71
indexation 148–150, 276
industrial production 124, 125
inefficient money paradox 13
inflation 31–32, 157, 158
  anticipated and observed 32–33
  stagflation 148–150
inflation targeting 157, 256
Institute of International Finance 194
institutional adaptation 235–242, 243–244
institutional capital 25–26, 29, 263
institutionalization processes 19, 21–22
institutions 6–7
  money as an institution 7–10
  organic 17
  pragmatic 17, 27
interbank transfers 220, 223
international economic integration
  167–168, 252–255
international financial institutions
  surveillance by 199
see also Bank for International Settlements (BIS); International Monetary Fund (IMF)
international liquidity problems 184–186
International Monetary and Financial Committee (IMFC) 193
International Monetary Fund (IMF) 128, 165, 199–200
  Articles of Agreement 142, 180, 185, 202
  amending 202–203
## Index

<table>
<thead>
<tr>
<th>Board of Directors</th>
<th>182–183</th>
</tr>
</thead>
<tbody>
<tr>
<td>concentration of IMF loans</td>
<td>191, 192</td>
</tr>
<tr>
<td>origins and development</td>
<td>180–195</td>
</tr>
<tr>
<td>international money</td>
<td>165–218</td>
</tr>
<tr>
<td>consortium regime</td>
<td>175–179, 204–214, 216–218</td>
</tr>
<tr>
<td>cooperative regime</td>
<td>175–179, 215–216, 218</td>
</tr>
<tr>
<td>informal</td>
<td>195–204</td>
</tr>
<tr>
<td>institutionalized</td>
<td>180–195</td>
</tr>
<tr>
<td>imperfect bipolarism</td>
<td>214–218</td>
</tr>
<tr>
<td>international treaties</td>
<td>177</td>
</tr>
<tr>
<td>intraday credit</td>
<td>232–235, 236–237, 244–245</td>
</tr>
<tr>
<td>Italy</td>
<td>107, 227</td>
</tr>
<tr>
<td>Bank of Italy</td>
<td>see Bank of Italy</td>
</tr>
<tr>
<td>banking crisis</td>
<td>104</td>
</tr>
<tr>
<td>Banking Law 1936</td>
<td>134</td>
</tr>
<tr>
<td>banknote issue</td>
<td>73–78</td>
</tr>
<tr>
<td>international loan</td>
<td>132, 133, 134</td>
</tr>
<tr>
<td>Jackson, A.</td>
<td>69, 70</td>
</tr>
<tr>
<td>Jacobsson, P.</td>
<td>184</td>
</tr>
<tr>
<td>James, H.</td>
<td>133, 183</td>
</tr>
<tr>
<td>Japan 72, 267</td>
<td></td>
</tr>
<tr>
<td>yen</td>
<td>143, 174</td>
</tr>
<tr>
<td>Jefferson, T.</td>
<td>67</td>
</tr>
<tr>
<td>joint production</td>
<td>xxiv, 24–25</td>
</tr>
<tr>
<td>joint-stock banks</td>
<td>62, 63</td>
</tr>
<tr>
<td>Jones, R.A.</td>
<td>17</td>
</tr>
<tr>
<td>Kahn, C.M.</td>
<td>38</td>
</tr>
<tr>
<td>Kenen, P.</td>
<td>182</td>
</tr>
<tr>
<td>Keynes, J.M.</td>
<td>xxxi, 114, 119–120, 121, 135, 165, 180, 182, 250</td>
</tr>
<tr>
<td>Kindleberger, C.</td>
<td>116</td>
</tr>
<tr>
<td>Kisch, C.H.</td>
<td>99, 153</td>
</tr>
<tr>
<td>Klein, B.</td>
<td>8, 13, 23, 24, 152</td>
</tr>
<tr>
<td>model</td>
<td>29–34, 169</td>
</tr>
<tr>
<td>Knapp, G.F.</td>
<td>5</td>
</tr>
<tr>
<td>Kohn, M.</td>
<td>43, 44</td>
</tr>
<tr>
<td>Kydland, F.E.</td>
<td>151–152</td>
</tr>
<tr>
<td>Lack, J.M.</td>
<td>285</td>
</tr>
<tr>
<td>Lamfalussy Standards</td>
<td>238, 239</td>
</tr>
<tr>
<td>landowners</td>
<td>52</td>
</tr>
<tr>
<td>Langlois, R.N.</td>
<td>6</td>
</tr>
<tr>
<td>large-scale retailing</td>
<td>28</td>
</tr>
<tr>
<td>Latin American debt</td>
<td>188–189</td>
</tr>
<tr>
<td>Law, J.</td>
<td>50, 58</td>
</tr>
<tr>
<td>law</td>
<td>10, 255–256</td>
</tr>
<tr>
<td>bankruptcy</td>
<td>108–109</td>
</tr>
<tr>
<td>civil</td>
<td>35</td>
</tr>
<tr>
<td>commercial</td>
<td>35, 52–53</td>
</tr>
<tr>
<td>hard</td>
<td>202–204</td>
</tr>
<tr>
<td>mercantile</td>
<td>42, 54</td>
</tr>
<tr>
<td>soft</td>
<td>195–204, 258</td>
</tr>
<tr>
<td>League of Nations stabilization loans</td>
<td>133–134</td>
</tr>
<tr>
<td>legal tender</td>
<td>113–161</td>
</tr>
<tr>
<td>international</td>
<td>166–167, 178</td>
</tr>
<tr>
<td>revolution in the payment system</td>
<td>219, 221, 223, 225–226</td>
</tr>
<tr>
<td>see also</td>
<td>fiat standard</td>
</tr>
<tr>
<td>legislation</td>
<td></td>
</tr>
<tr>
<td>incorporation of new objectives of economic policy</td>
<td>137–138</td>
</tr>
<tr>
<td>special legislation for banks</td>
<td>107, 109</td>
</tr>
<tr>
<td>legitimate needs of commerce doctrine</td>
<td>64</td>
</tr>
<tr>
<td>lender of last resort</td>
<td>xxiii, 85</td>
</tr>
<tr>
<td>international</td>
<td>192–193</td>
</tr>
<tr>
<td>Treasury letters and the debate on the nature of the Bank of England</td>
<td>86–95</td>
</tr>
<tr>
<td>letters of exchange</td>
<td>21, 41–42, 43–44, 53, 265</td>
</tr>
<tr>
<td>liberal state</td>
<td>xxxi, 251</td>
</tr>
<tr>
<td>liberalization, financial</td>
<td>156–157, 188, 228, 254</td>
</tr>
<tr>
<td>Lidderdale, W.</td>
<td>92–3</td>
</tr>
<tr>
<td>limited liability</td>
<td>56–57</td>
</tr>
<tr>
<td>liquidity, international</td>
<td>184–186</td>
</tr>
<tr>
<td>liquidity risk</td>
<td>223, 224, 225</td>
</tr>
<tr>
<td>London</td>
<td>41</td>
</tr>
<tr>
<td>Lyons exchange fairs</td>
<td>42–43, 43–44</td>
</tr>
<tr>
<td>Maastricht Treaty</td>
<td>131, 156, 204, 208–209, 210–211, 212, 241, 253</td>
</tr>
<tr>
<td>macroeconomic failure, risk of</td>
<td>56</td>
</tr>
<tr>
<td>Mahar, M.</td>
<td>228</td>
</tr>
<tr>
<td>maladaptation costs</td>
<td>12–13, 27–28</td>
</tr>
<tr>
<td>managed money</td>
<td>xxvii, 114</td>
</tr>
<tr>
<td>Mansfield, Lord</td>
<td>54–55</td>
</tr>
<tr>
<td>marginalism</td>
<td>3</td>
</tr>
<tr>
<td>mark, German</td>
<td>143, 174</td>
</tr>
<tr>
<td>market</td>
<td>21–22</td>
</tr>
<tr>
<td>state and</td>
<td>22–23, 28</td>
</tr>
</tbody>
</table>
The age of central banks

Marshall, A. 59
Marshall Plan 183
mass finance 253–254
mass politics 167–168, 252–255
McKinnon, R.I. 117, 136, 145, 157, 227–228
means of payment 7–8, 13
medium of exchange 7
Menger, C. 17–18, 22, 27
mercantile law 42, 54
merchant guilds 21–22
merchants 38–39, 52–53
mergers and acquisitions 245
see also consolidation
methodological individualism 27
Michaely, M. 143–144
Middle Ages 12–13, 14, 21, 170–171
Mill, J. 58–59, 61
Minghetti, M. 75
models of reform 26, 29
see also American model;
continental European model;
English model
monetarist school 151
Monetary Committee of the European Community 206
monetary nationalism 171, 172–173, 214–215
monetary policy 115, 256–257
credibility of 142–160
Monetary Snake 206, 207
monetary sovereignty see sovereignty
monetary standard 116
bimetal standard 116–117
flat standard see fiat standard
silver standard 116–117
monetary trilemma 137, 166–167, 168, 252
money xxv–xxvi, 3–10
functions 7–8, 13, 219
as an institution xxv, 7–10
Klein’s model 29–34
origins 3–7
see also payment technologies
money-changers 39
money supply, adaptability of 16
monopoly vs competition in banknote
issue 60–63
Montesquieu, C. de S. 45–46
moral hazard 85
moral suasion 94–95
Morgan, E.V. 51, 94–95
Mueller, R.C. 42
multilateral clearing systems 224, 283
multilateral credit 233–235
mutual redemption
Italy 76–78
US 68–69

naming and shaming 199, 201
Napoleon I, Emperor 73, 100–101, 130
National Bank Act 1863 (US) 71
nation-state 175–176
political trilemma 167–168, 252–255
national debt 118, 119
national economic policy, sovereignty of 136
National Monetary Commission (US) 98–99
nationalism, monetary 171, 172–173, 214–215
nationalization
banknote production 56, 57–59
central banks 115, 138
negotiability 37–38, 52
neo-classicism xxi, xxv, 3–4, 249
neo-institutionalism xxviii, 6–29, 249
concept of payment technology 7–10
evolution of payment technologies 16–26
payment technology costs 10–16
netting systems see clearing systems
network externalities 22–23
new monetary economics 220
New York Safety Fund System 57
New York Stock Exchange 235
nirvana fallacy xxviii–xxix, 19
Noël Report 242
Norman, M. 120, 132–133, 134, 165
North, D. 6, 17, 19, 20, 50
Nurkse, R. 106, 122, 135

objectives, central banks’ 155–156
obligatory coupons 42
O’Brien, P. 54
observed inflation 32–33
offshore financial centres 198
<table>
<thead>
<tr>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Okun, A.</strong> 12</td>
</tr>
<tr>
<td><strong>Olson, M.</strong> xxiii, 17, 18</td>
</tr>
<tr>
<td>open economy trilemma 137, 166–167, 168, 252</td>
</tr>
<tr>
<td>open-market operations 91, 140–141</td>
</tr>
<tr>
<td>opportunism, risk of 56</td>
</tr>
<tr>
<td>options 230</td>
</tr>
<tr>
<td>organic institutions 17</td>
</tr>
<tr>
<td>overdraft 39</td>
</tr>
<tr>
<td>Overend, Gurney &amp; Co. 88–89</td>
</tr>
<tr>
<td>Overman Act 1918 (US) 131–132, 274</td>
</tr>
<tr>
<td>Overstone, Lord 61</td>
</tr>
<tr>
<td>Pagano, M. 213, 282</td>
</tr>
<tr>
<td>Palmer, J.H. 65, 66</td>
</tr>
<tr>
<td>Palmer’s rules 64</td>
</tr>
<tr>
<td>path-dependence 25–26</td>
</tr>
<tr>
<td>Patinkin, D. 4</td>
</tr>
<tr>
<td>payment, means of 7–8, 13</td>
</tr>
<tr>
<td>payment fairs 42–44, 225</td>
</tr>
<tr>
<td>payment system 219–248</td>
</tr>
<tr>
<td>exceptions to the pyramid model 225–227</td>
</tr>
<tr>
<td>financial deepening storm of the 1980s 227–231</td>
</tr>
<tr>
<td>financial innovation and 231–235</td>
</tr>
<tr>
<td>institutional adaptation process 235–242, 243–244</td>
</tr>
<tr>
<td>pyramid model 220, 221–225</td>
</tr>
<tr>
<td>recent tendencies 242–248</td>
</tr>
<tr>
<td>payment system oversight 237, 241–242, 243–244</td>
</tr>
<tr>
<td>payment system risks 223, 224, 225</td>
</tr>
<tr>
<td>credit risk 223, 224, 225</td>
</tr>
<tr>
<td>liquidity risk 223, 224, 225</td>
</tr>
<tr>
<td>regulations limiting 237, 238–239</td>
</tr>
<tr>
<td>systemic risk 224, 225</td>
</tr>
<tr>
<td>payment technologies xxv, 7–26, 169, 250</td>
</tr>
<tr>
<td>coexistence 218</td>
</tr>
<tr>
<td>convertible banknotes as a payment technology 55–59</td>
</tr>
<tr>
<td>costs 10–16</td>
</tr>
<tr>
<td>evolution 16–26</td>
</tr>
<tr>
<td>Klein’s model 32, 33–34</td>
</tr>
<tr>
<td>peculiarity of the bank deposit 82–85</td>
</tr>
<tr>
<td>see also under individual payment technologies</td>
</tr>
<tr>
<td>payments, day of 43</td>
</tr>
<tr>
<td>Pecorari, P. 76</td>
</tr>
<tr>
<td>Peel, Sir R. 52, 65, 79</td>
</tr>
<tr>
<td>peer pressure 199, 201</td>
</tr>
<tr>
<td>pluralism (in note issue) 73–78, 81–82</td>
</tr>
<tr>
<td>regulated pluralism 75</td>
</tr>
<tr>
<td>political control 107</td>
</tr>
<tr>
<td>political trilemma 167–168, 252–255</td>
</tr>
<tr>
<td>pooled sovereignty (consortium regime) 175–179, 204–214, 216–218</td>
</tr>
<tr>
<td>Posen, A. 250</td>
</tr>
<tr>
<td>pound sterling 143, 144</td>
</tr>
<tr>
<td>pragmatic institutions 17, 27</td>
</tr>
<tr>
<td>preferences, changes in 19</td>
</tr>
<tr>
<td>pre-industrial credit payment</td>
</tr>
<tr>
<td>technologies xxx–xxxi, 35–46</td>
</tr>
<tr>
<td>credit chains and finality rules 36–39</td>
</tr>
<tr>
<td>credit payments and payment fairs 40–44</td>
</tr>
<tr>
<td>deposit banks 39–40</td>
</tr>
<tr>
<td>giro banks 45–46</td>
</tr>
<tr>
<td>Prescott, E.C. 151–152</td>
</tr>
<tr>
<td>price stability 155, 156, 157</td>
</tr>
<tr>
<td>private capital/institutions 49, 50</td>
</tr>
<tr>
<td>private payment systems 247–248, 257–258</td>
</tr>
<tr>
<td>promissory notes 54, 265</td>
</tr>
<tr>
<td>prudential rules 56, 59</td>
</tr>
<tr>
<td>public sector expenditure 145, 146</td>
</tr>
<tr>
<td>purchasing-power-securing order 9</td>
</tr>
<tr>
<td>pyramid model 220, 221–225</td>
</tr>
<tr>
<td>exceptions to 225–227</td>
</tr>
<tr>
<td>‘pyramid under siege’ 242–248, 257–258</td>
</tr>
<tr>
<td>quasi-systems 247–248</td>
</tr>
<tr>
<td>queued payments 240</td>
</tr>
<tr>
<td>quotas, IMF 184–185</td>
</tr>
<tr>
<td>Radcliffe Report 138</td>
</tr>
<tr>
<td>real bills doctrine 105, 106</td>
</tr>
<tr>
<td>real-time gross settlement systems 237, 239–240</td>
</tr>
<tr>
<td>real-time netting 232</td>
</tr>
<tr>
<td>reciprocity 176</td>
</tr>
<tr>
<td>reckoning 43</td>
</tr>
<tr>
<td>reforms xxviii, xxix–xxx, 25–26</td>
</tr>
<tr>
<td>regulated pluralism 75</td>
</tr>
<tr>
<td>Reichsbank 101–102, 153</td>
</tr>
<tr>
<td>relative prices, changes in 19–20</td>
</tr>
<tr>
<td>Report on the Observance of Standards and Codes (ROSC) 199</td>
</tr>
</tbody>
</table>
The age of central banks

representative democracy 251
repression, financial 227–228
‘repudiated pyramid’ hypothesis 248
reserve cities 97
reserve equalization mechanism 97
reserve requirements 141–142
reserves 15, 84
Bank of England as depository of 93–94
Genoa accords 122, 123
global 173
resumption rule 117–118
retail payment system 220, 226
revolutions 26
Rey Report 193, 194
Ricardo, D. xxvii, 58, 61, 64, 130–131
Ricardo, S. 58, 64
Richter, R. 9
risk
commodification of risks 228
payment system risk see payment system risks
Roberds, W. 38
Robinson, J. 180
Rogoff, K. 152–153
Rome Treaty 205
Roover, R. de 53
rules
finality 36–39, 238–239
resumption rule 117–118
runs on banks 81
see also banking crises
safety net 196
saleability 17–18
Sannucci, V. 78
Schnadt, N. 81
Schumpeter, J. 27, 261
Schwartz, A. 23
Scotland 111
Second Bank of the US 66, 68–71, 79
Second World War 135, 143
securities payments 237, 240–241
settlement interval 224–225
Shafroth, J. 99, 270
shares 230
Shaw, E. 157, 227–228
SIC 240
signatures 53
silver standard 116–117
Simiand, F. 26–27
Simon, H. 6
Single European Act 1986 204
single market, EU 203
Smith, A. 58, 60–61, 258
Smith, V. 49, 56, 65, 89, 99
Snake, Monetary 206, 207
social conventions 8
social pact 145
social transfer payments 145, 146
Società Bancaria Italiana 104
Société Générale 101
soft law 195–204, 258
sovereignty 252
international money 169–170, 175–176, 192
pooled sovereignty 175–179, 204–214, 216–218
renouncing monetary sovereignty 160
uncertain benefits of monetary sovereignty 160–161
Special Drawing Rights (SDRs) 186–187
Stability and Growth Pact 209–210, 211–214
stagflation 115, 148–150
recovery from 253
Standing Committee on Banking Regulations and Supervisory Practices see Basel Committee
statalism 5–6
state 22, 252
intervention in crises 24
liberal and democratic xxxi, 251
and market 22–23, 28
nation-state see nation-state
role in creating confidence 23, 25
supervision and banknote issue 56, 59
state banks (US) 68–9, 70, 71–72, 80, 96–97
stock markets 256–257
store of value 219
Strange, S. 215
‘strengthened pyramid’ hypothesis 248
Stringger, B. 103–104
Strong, B. 120–121, 123–124, 132–133, 141
structural controls 107–108, 109
### Index

submission 129–135  
supervision, banking *see* banking supervision  
Supplemental Reserve Facility (SRF) 190  
surveillance by international financial institutions 199  
suspension of debt repayments 188–189  
Sussman, N. 129  
Sweden 50, 57–58, 72, 129  
Bank of Stockholm 49, 50  
systemic risk 224, 225, 234  
TARGET 240  
Temin, P. 120, 127–128  
territorial monies 214–215  
theory of history xxx, 5, 249  
theory of value 3  
Thornton, H. 61, 62  
tiering 246, 247  
Timberlake, R.H. 70–71, 110  
Tooke, T. 51–52, 61  
Torrens, R. 64  
trade needs of and monetary change 19–20  
volume of 230  
world trade and the Great Depression 126  
transaction costs 12, 27–28  
transferability of credit instruments 36–37  
transition economies 159–160, 161  
transnational banking regulations 256, 285  
Treasury bills 140  
Treasury letters 86–93  
Triffin dilemma 145, 174–175, 186, 275  
trust *see* confidence/trust  
trust companies 98, 270  
two-track approach 193–194  
tyling one’s hands 213, 252, 282  
unemployment 148–150  
unit of account 7–8, 13  
utinary model of note issue 81–82  
unitas 180–181, 182  
United Kingdom (UK) 227  
Bank of England *see* Bank of England  
banking crises 87–89  
compared with the US’s 111–112  
country banks 60, 62, 65  
devaluation of the pound 143, 144  
gold standard 117, 118, 120, 122–123, 128  
and increase in capital mobility 215–216  
*see also* England  
United States (US) xxiv, 157–158, 227  
Aldrich–Vreeland Act 98  
bank deposits 80  
Bank War 66, 68–70  
Banking Act 1933 139  
banking crises 96, 97–98  
compared with the UK’s 111–112  
Civil War 71  
collapse of the Bretton Woods system 145–146  
Constitution 66–67, 71  
Council of Economic Advisers 150  
dollar 143, 174, 186  
Emergency Banking Act 1933 134  
and the establishment of the IMF 181–183  
Federal Reserve Act 1913 xxiv, 82, 99  
Federal Reserve System *see* Federal Reserve System  
gold standard 118, 121, 123–124, 128  
Humphrey–Hawkins Act 1978 157  
and increase in capital mobility 215–216  
Independent Treasury 71  
international liquidity problem 186  
liability regime changes 57  
monetary history in the 19th century 65–72  
National Bank Act 1863 71  
National Monetary Commission 98–99  
note issue 50, 58, 65–72, 73, 82, 96–97  
Overman Act 1918 131–132, 274  
persistent deficit 183, 184  
state banks 68–69, 70, 71–72, 80, 96–97  
Thomas Amendment to the Agricultural Adjustment Act 134
War of Independence 68
see also American model
universality 176
unlimited liability 56–57

Valencia 40
value
store of 219
theory of 3
Vanberg, V. 18
Veblen, T. 6
Venice 40
vertical integration 10, 167
Vicarelli, F. xx–xxi, 249
Volcker, P. 154, 174, 257
volume of payments 230–231
volume of trade 230
voting rights 126
Vreeland, Senator 99

Washington, G. 267
Weingast, B. 50
Werner Plan 204, 205–206
White, E. 127
White, L. xxi, 151
wholesale payments 220, 221, 226
Willard Group 197
Williamson, J. 228
Williamson, O.E. 6–7, 17
Working Party on Financial Stability in
Emerging Market Economies 197, 281
World Bank 199
world central bank, proposed xxxi
Wormser, O. 148, 276
yen 143, 174
Young Plan 195