Subject index

absolute exchange 37, 55
   rates 66
absolute prices 35
accounting circuit 160
accounting units 73
agent’s real income 125
amortization
   and fixed capital 152
   of fixed capital 183–85
   Keynesian 152–54
   and over-investment 156–59
asset circulation 139
asset-liability 1, 55, 73
autonomous/accommodating
   transactions 267–68
balance of payments 263–72
   Balance of Payments Annual Report 276
   Balance of Payments Manual 263, 268, 271, 280
balance-of-payment discrepancies, world 275–91
balance-of-payments equilibrium 267
Bank Act (1844) 179
bank credit and inflation 206–209
bank intermediation 84
bank numbers 73–74, 75
Bank of England 179
banks
   banking principles 174
   credits-debits 85
   debits-credits 85
   departmental separation 179–81, 186
   FCD (fixed capital department) 186–88
   FD (financial department) 179
   ID (issuing department) 179
   units of account 78, 90
   see also double-entry book-keeping
barter 74, 108
behavioural laws 39
bilateral financial-market transactions 233
bond issues 115
Bretton Woods 65
business cycle theories 193–200
CA (current account) see balance of payments; double-entry book-keeping
capital
   and interest 120
   malformation of 152
   marginal efficiency of 204
   in production 135
   renewal 152–54
   user cost 115
   working 155
capital accumulation 98, 135, 162, 201, 214
   and inflation 146–61
capital flight 13–14, 263, 275–79, 288
capital flow 271, 274, 276, 277, 278, 280
capital goods exchange 157
capital income 102, 116
capital inflation 136, 159
capital outflow 13, 14, 272–91
capital over-accumulation 181–88
capital-time 211, 212
capitalistic profit analysis 97
celestial mechanics 45
central point price 27–29, 32, 33
chaotic dynamics 198
circuit of income 8–9, 123, 134–65
   and inflation 135–37
circuit of money 141, 143–44
   capital 201
   and payments 144
Modern monetary macroeconomics

circuit of profits 148, 160, 161
circuit of wages 161, 171
circulation of money 240
classical macroeconomics 41–43
clearing arrangements, and money 142
closed intervals 35
Cobb-Douglas production function 7, 100, 105
commodity 110–11
commodity equalisation 21–38
commodity inflation 136, 159
commodity-money 209
consumption
  analysis 56
  and income 58
  and production 107
  saving as 115
consumption goods 138, 139
coordination failure/success 47
costless incomes 87, 88
credits-debits 85
cries
  economic 10–11, 193–215
  and economic laws 200–204
  quantum analysis of 205–13
cumulative process of inflation 159–61, 209
Currency Principle 179
current account deficit 282–83, 286
current account surplus 285–86
cycle theories 193–200
cycles, and equilibrium 198–200
Danaiad jar mechanism 139–40
debits-credits 85
debt doubling 241–51
deflation 63–64, 136
deflationary gap, and unemployment 185–88
demand deficiency 9, 171–73
demand/supply 6, 19, 21–24, 49, 62, 82, 83–85, 103, 200, 205, 208
demand/supply equality 19, 62
departmentalization 162
dépense gigogne 97
depositors, as bank creditors 174
deposits, as stocks 138
distribution
  and division of labour 107
  of income 129
  and prices 129
  and profits 148
distribution model 104
distribution theory 102
disturbances, and equilibrium 199
dividends, and profits 122–25, 127–28, 148
division of labour 109–10
double debt 241–51
double interest 12, 14, 65, 257, 263, 284, 285
double-entry book-keeping 1, 55, 72, 80, 81, 174, 187, 188, 206, 242, 245, 251, 261, 262, 264–68, 272, 280, 282, 283, 290
dynamic stochastic general equilibrium approach 3
earning-through-spending 58
economic aggregates 52–53
economic crises 10–11, 193–215
economic judgements 77
economic laws, and crises 200–204
economic role, of fixed capital 154–56
economic value 74
economic variables 196–98
effective demand 82–86, 175
efficiency-wage model 104
Elements 4, 22, 38, 105, 169
employment 9
  and income 173
see also unemployment
empty money emission 2, 159
empty wages 186
EMU 231–36
  exchange rate fluctuation 222
  monetary disorder 11, 221
entrepreneur economy 9, 166, 167–70
entrepreneurial income 89–90
entrepreneurial remuneration 136, 137
entrepreneurial spending 140
EPM (ECB payment mechanism) 223
equations of production 167
equilibrating price 33
equilibrium
  balance-of-payments 267
  and cycles 198–200
  and disturbances 199
  export-import equivalence 251
  equilibrium price equalization 21–38
equilibrium theory 195–96
equivalence 25, 74
ESCB (European System of Central Banks) 11, 221
ESM (European Stability Mechanism) 234–35
euro-area crisis 221–36
European Monetary Union see EMU
European settlement institution 232–34
Eurosystem see ESCB
euthanasia of rentiers 189
ex ante/ex post analysis 172
exchange
between equivalents 24
definition 24
and division of labour 111
mediums of 143
and production 102, 108–10
terms of exchange equalization 24
types of 90
exchange rates
absolute 66
EMU fluctuation 222
relative 65
exorbitant privilege 11, 221
expected profit 122
expenditure
and income 57
and money creation 73
export-import equivalence 251
external debt 12–13, 242–51
developing countries 287
factors of production 169–71
FCD (fixed capital department) 186–88
FD (financial department) 179–81
final purchase 85
finance motive 9, 173–76, 188
financial assets 79
and money 141–43
financial crises 10–11, 193–215
financial wages 79
firms
debts 56
goods produced 186
income investment 211
income lent to 210
and inflation 151
profits 128
profits lending 186
and replacement capital 153
and wage bills 184
first purchase 85
fixed capital 98, 114–16, 152, 153–56
183–85, 211–13
flow of payments 266
foreign currency outflow 245
foreign currency transactions 251–60
formation, of fixed capital 183–85
fungible goods 86
general equilibrium analysis (GEA) 40,
44, 45, 46, 51, 52, 53
general equilibrium theory 3
general price level see GPL
The General Theory of Employment,
Interest and Money 6, 46, 49, 52,
82, 89, 90, 97, 111, 137, 148, 150,
152, 153, 159, 172, 174, 189
global capital account discrepancies
274, 275
global demand and income 201
Global Development Finance Database
276, 287
global import/export inequality 282
global supply/demand 46–49
goods
categories 240
fungible 86
stocks 138
goods market
expenditure and income 149
profits 115
transfer 126
GPL (general price level) 77, 177
HICP (Harmonized Index of
Consumer Prices) 178
homo oeconomicus 3
hydraulic circuit 160
ICU (International Clearing Union)
65
ID (issuing department) 179–81
identity 266
IIP (international investment position)
256, 263, 268–72
IMF 13, 241, 270, 273
IMF Balance of Payments Annual
Report 276
Modern monetary macroeconomics

IMF *Balance of Payments Manual* 263, 268, 271, 280

income
  and consumption 57
  emission by workers 111
  and production 101–14
  and wage-units 110–14
income circuit 8–9, 123, 134–65
income determination 51
income distribution 101, 105, 128–29
income, and employment 173
income inflation 136
income transfer 124
income-expenditure 89
income-formation 89
indeterminacy of relative prices 21–38
inflation 9, 61–64, 134, 135, 178
  and bank credit 206–209
  and capital accumulation 146–61
  capital inflation 136, 159
  and circuit of income 135–38
  commodity inflation 136, 159
  cumulative process of 159–61, 209
  dysfunctional 146
  and interest rate 161
  invisible, and investment 150–52
  and payments 137
  and profits 144–45, 147
  and qualitative arrangements 178–81
  and stocks differences 138
types of 136

Inflation, chômage et malformations du capital 49, 96

instantaneous circuit of money 79–82
instrumental capital 92
interest
  double payment 12, 14, 65, 257, 263
  and labour 117
  and labour productivity 121
  nominal 120, 127
  as profit 117
  real 127
  and sovereign debt 239–60
  and wages 116–22
interest income position 13
interest rate 118
  and inflation 161
interest theorem 251–60
interest-goods 93, 94, 103, 118, 119, 124–25
Interlinking account 224
international final payments 232
international investment position (IIP) 256, 263, 268–72
international macroeconomic disorders 64–66
International Monetary Fund see IMF
international reserves 13
intervals definition 35
investment 147–52
  amortization and over-investment 156–59
  circulation-based 135
  as expenditure 148
  as invisible inflation 150–52
  Keynesian 147–48
  and profit 115, 148–51, 157–58
  socialization of 189
investment goods inflation 137
investment goods sector, and profit 139–40
investment, total saving/total investment 205
involuntary unemployment 48, 61, 161
IS-LM model 50–51
key-currency countries 221
Keynes plan 231
KFA (capital and financial account) see balance of payments; double-entry book-keeping

La formation du pouvoir d’achat 6, 71
labour 7–8
  and capital 84–85
  division of 109–10
  and income 57
  and production 46, 107, 169
  sale of 84–85
  and surplus-value 201
  and wages 112
labour/labour force distinction 87–88
labour income 102
labour-value 74
Lavoisier’s principle 55, 106
LDC indebtedness 65
logical identities (Keynes) 49–50, 59–61
M-C-M formula 168, 200–201
Maastricht Treaty 223
macroeconomic agents 59–61
macroeconomic consumption 55–58
macroeconomic disorders, national/ international 61–66
macroeconomic income 51–52
macroeconomic production 55–58
macroeconomic set 54–55
macroeconomics
  aggregation 54
  classical 41–43
  definition of 54–55
  Keynesian 45–53, 59
  logical identities 49–50, 59–61
  macroeconomic approach to 5–6, 39–70
  microeconomic approach to 5, 10, 42, 52
  national-international 58–59, 61–66
  quantum analysis 6, 37, 40, 53, 59, 63, 71, 75, 90, 91–92, 95, 101, 178, 189, 205–13, 205–15
  saving and investment 49–50
  malformation of capital 152
  marginal productivity-to-wage causality 104
  market clearing 85
  mediums of exchange 143
  microeconomics 50–53
    approach to macroeconomics 5, 10, 42
    distribution theory 102
      Walrasian 43–45
    missing capital outflow 13, 14, 272–91
    missing prices 32–36
    missing surplus 13, 14, 272–91
    monetarist models 53
    monetary circuit theory 2
    monetary commodity 110–11
    monetary disorder 11
    monetary payments 239
    monetary policy 9, 173–81
      flaws in 177–78
    monetary union 222–23
    monetary-structural disorder 2
    monetization 75, 84, 85
    money
      as accounting device 135
      as asset 141–42
      bank numbers 73–74
      blue money 76, 77, 79
      circuit of 141, 143–44
      and clearing arrangements 142
      commodity-money 209
      and credit 6
      as debt 55
      dematerialization of 239
      emission of bank money 72–73
      and financial assets 141–43
      as form of value 43, 45
      instantaneous circuit of 79–82
      intrinsic value 74, 76–77, 112
      and macroeconomic production/consumption 55–58
      and money income 46
      nature of 53, 60
      nominal money 6, 75–79, 90, 95, 96, 242
      as numéraire 4, 36, 38
      and output 112–13
      and payments 137–39
      and production 37
      and profit formation 123
      quantity theory of 6, 12, 240–41
      real money 6, 75–79, 90, 95–96, 242
      red money 76, 77, 79
      zero-sum 72, 73
    money circulation 6, 8, 12, 37, 38, 75, 81, 239–40
    velocity 240
    money creation 72–73, 141, 173–81
    money emissions 1, 72–73, 101
    money flows 37
      see also double-entry book-keeping
    money units 81
    money-income 46, 206
    money-wage economy 168
    money-wage rigidities 7
    money-wages 79, 80, 81
      and sales 171
    multilateral financial-market transactions 234
national macroeconomic disorders 61–64
NCB (national central banks) 11, 65, 221
neoclassical economics 7, 24, 26, 34, 43–44, 87, 121, 195
net interest payments 13, 14
nominal convergence criteria 223
nominal income 93, 125–28
nominal interest 120, 127
nominal money 6, 75–79, 90, 95, 96, 242
nominal wages 104, 120, 126
non-equilibrium dynamics 198
non-fungible goods 86
non-wage income 7–8, 114–16
normal goods 28
normal profit 140
normal remuneration 136
numbers and commodities 22–23, 34, 35
numéraire (Walras) 4, 21–24, 25, 27, 28, 31, 34, 35, 36, 37, 38
as money 4, 36, 38
numéraire-commodity 31, 34
numerical equilibrium prices 19–38
numerical prices 25, 26
official reserves 268–72
open intervals 35
orderly system 199
output
and money 112–13
as stock 209
in wage economy 110
output markets 125
output production 114
output utility 106
over-accumulation, of fixed capital 183–85
payment, and circuit of money 144
payment methods 138–39
payment units 73
payments, flow of 266
pen/razor-blade commodity exchange 3–4, 19–38, 74
physical prices 25, 26
physiocratic analysis 40–41
positive payments 239
positive profits 89
power of appropriation 155
price existence 35
price stability 177
prices
charged 125
and distribution 129
and factors of production 88
in money units 35
prime cost 89
product-in-the-money 46
production
as absolute exchange 55
classical analysis 41–43
components of 158
and consumption 107
double partition 158
and economic agents 203
and environment 106
equations of production 167
and exchange 102
factors of production 169–71
and income 101–14
and labour 46
production-function model 104
productive consumption 155
productive services and goods 167
profit 71, 86–99
circuit of profits 148, 160, 161
and consumption goods sector 139–40
definition 122, 136, 168
and dividends 122–25
and inflation 144–45, 147
and investment 115, 148–51, 157–58
and investment goods sector 139–40
normal profit 140
and prices 150
and productivity 122
windfall profit 137, 140, 147
profit inflation 136, 137
profit realization 88, 122
profit spending 9, 146, 150, 182–83
profit-goods 124
public debt 239
quantity theory of money 6, 12, 240–41
quantum analysis 6, 37, 40, 53, 59, 63, 71, 75, 90, 91–92, 95, 101, 178, 189, 205–15
rational mechanics 45
real capital 92
real commodity 90, 110–11
real exchange economy 9, 167–68
real income 93, 125–28
real interest 127
real money 6, 75–79, 90, 95–96, 242
real wages 79, 126
realization of profit 88, 122
relative exchange rates 65
relative exchanges 24–27
relative prices 19–38, 35, 44, 88, 89
  indeterminacy of 21–36
  in real world 24–27
reserve assets 268–72
RT (reserve asset transactions) 269
RTGS (Real-Time Gross Settlement)
  protocol 223, 224
saving, total saving/total investment 205
savings 54, 115
Say's Law 47, 48, 200, 202–204
Schmitt School 1, 2
second purchase 85
simultaneous equations 172
singular prices 25, 26
socialization of investment 189
sold output value 89
sovereign debt 12, 239–60
Spätkapitalismus 98
SSP (Single Shared Platform) 224
stagflation 186
sterile class 41
stock-flow reconciliation 272
stocks, and economic system 141
subprime mortgages 10, 193
supply/demand see demand/supply
surplus income, and profit 87
surplus values 87–88
systematic misreporting 14, 263

Tableau économique 40–41
TARGET2 11
  cross-border payment 225, 227–30
  and EMU 231–36
  financial-market transactions 229
  imbalances 221–36, 230, 231
  infrastructure/mechanics 222–27
  and international clearing 227, 235
  international payment deficits 230
  and international payment finality 227–30
two-tier payment infrastructure 226
tâtonnement (tentative adjustment) 28, 44
team production 104
terms of exchange equalization 24
Théorie unitaire de la monnaie, nationale et internationale 266
total saving/total investment 205
trade cycle 204
trade surplus limitation 235
Trans-European Automated Real-time
  Gross-settlement Express Transfer
  see TARGET2
A Treatise on Money 8, 45–46, 83, 89, 90, 117, 134, 135–46, 150, 153, 159, 168, 183, 189
two-commodity economy see pen/razor
  blade commodity
UK external debt 12
undistributed profits 122
unemployment 6, 48, 135, 161, 166–90
units of account 78, 90
user cost 153
utility 105–108
  of input/output 106
  as product of labour 107
utils (utility) 74
value in exchange 42
value in use 42
wage bill payment 179–81
wage earners
  as lenders 86
  and markets 59–60
wage economy 166
wage expenditure 95–97
wage form 121
wage-goods 92–93, 94, 95, 103, 119, 123, 124
wage-units 46, 111, 124, 125, 126, 154
  and demand 171
  final distribution 101
  and income 110–14
  as independent variable 111–12
  as measure of output 169, 206
  and production 42–43, 169
  share-out 101
wages 7–8, 55–56, 85–86
as bank deposits 175
circuit of wages 161, 171
as credit-debit transactions 79
and deposit-holders loans 176
dual expenditure 97
and goods 175–76
and inflation 151
and interest 116–22
and labour 112, 154
and labour-power 201–202
as marginal product of labour 111
money wages 79, 80, 81
and national output 83
nominal 104, 120, 126
and profits 184
real wages 79, 126
Walrasian theory 3, 4, 43–45, 89
see also GEA; numéraire

The Wealth of Nations 46
Werner Report 223
widow’s cruse mechanism 139–40
windfall profit 137, 140, 147
Wittgenstein’s ladder 26–27
world balance-of-payment
discrepancies 275–91
World Bank Global Development
Finance Database 276
world capital and financial account
discrepancies 262, 274
world current account balance 273
world current account discrepancy
13, 262
zero profits 89
zero sum transactions 239–40
zero-cost income 86