401(k) plans, 5, 22, 34, 55, 103, 161
and voluntary annuitization, 202
benefits of tax deferral with, 251
current issues, 252
default settings, 182
flexibility of distribution arrangements, 175
increasing share of coverage of, 23, 205, 248
maximum vesting period, 250
risks of, 5
virtues of, 251
with income guarantee. See alternatives to the traditional pension
AAM. See public pension systems: automatic adjustment mechanisms
accounting reforms, 158–59
Accounting Standards Board. See ASB
activist regulation, 98–102, See also provision of information and financial education
gaming of, 100
impact on labor cost, 99–100
of coverage, 98–100
of vesting, 96, 101–02
aggregate longevity risk, 8, See also supply-side influences on decline of the traditional plan: aggregate longevity risk as source of increased risk to plan sponsors, 146
implications for choice of discount rate, 75
ALM. See asset liability management
alternatives to the traditional pension.
See also hybrid pensions 190–202
DC plan with a guarantee, 192–95
default setting to encourage annuitization,
200–02
in service annuity (ISA), 195–200
ASB, 78, 158
asset liability management, 86–90, 93
asset-liability matching, 82, 85, 93, 209
Australia
adequacy problem, 25
current issues, 219–20
dominance of defined contribution plans, 217
financial literacy issues, 168, 220
historical background, 215–16
increasing coverage of second tier following reform, 23
overview of second tier, 215–20
pension reform in, 22
regulatory issues, 218–19
Australian Prudential Regulatory Authority (APRA), 167, 218
auto IRA, 100, 182, 183, 184
automatic IRA. See auto IRA
bias risk, 190
California Public Employees Retirement System, 116, 128–29
CalPERS. See California Public Employees Retirement System
Canada
coverage and basic features of second tier, 220–21
coverage of private sector plans, 3
current issues, 223–24
financial literacy concerns, 224
first tier of, 223
Canada (cont.)
  overview of second tier, 220–24
  reasons for slower decline of traditional plans, 222–23
  regulatory issues, 221–22
CB plan. See hybrid pensions: cash balance plan
Chandler, Alfred D. Jr
  study of business organization, 19
conditional indexation. See Netherlands contractual saving
  effect on personal saving, 45–47
costs of plan administration in the United States and the United Kingdom, 156–58
Dame Agatha Christie, 144
decisions required of plan members.
  See provision of information
decline of the traditional pension
  issues of method with explanations of, 139–41
  range of demand-side influences on, 7, 143–44
  range of supply-side influences on, 6, 142–43
  reasons for, 6
deferred annuity pricing, 197
defined benefit plan
  risks of, 6
defined contribution plans
  economic effects of, 53–55
  failure to address key risks, 5
  investment issues, 92–93
demand-side influences on decline of the traditional pension, 172–77
decreasing rates of unionization, 175–76
decreasing tenure rates, 172–74
distrust of the employer, 176–77
shortsightedness of plan participants, 174–75
Denmark
  coverage of second tier, 224–25
  current issues, 227
  Danish Financial Supervisory Authority (DFSA), 226
  DB character of employer-provided plans, 225
  overview of second tier, 224–27
  regulation of second tier, 226
duration, 74, 80, 87, 89, 90, 91, 108, 127, 226
duration matching, 93, 105, 108, 159, 197, 207
duration mismatch, 149
EET. See EET tax model
  EET tax model, 31, 34, 223, 230, 242
  employee pension funds (EPF).
  See Japan: older pension forms
employer-provided pensions
  adequacy of, 24–26
  conditions for development of, 17–20
  costs of financial intermediation and, 44
  coverage of, 1, 20–24
  disparities of coverage by income, age and other socio-economic markers, 24
  early history of, 16
  forms taken by the benefit, 34–35
  legal forms, 26–28
  modes of taxation, 43–44
  overview and summary of declines in traditional plan coverage, 205–06
  portability, vesting and preservation, 29–31
  predominant form, 26
  rationale for, 42
  recent trends in, 20
  role in human resource management, 19, 45
tax issues, 43–44
  entry age normal method. See pension plan funding: prospective funding methods
  ERISA, 26, 30, 105, 156, 159, 160, 162, 174, 222, 248, 250
  exempt-exempt-taxed model of pension plan taxation. See EET tax model
FASB, 158, 165
  fair value accounting. See pension plan funding: valuation of assets
final salary plans
Financial Accounting Standards Board. See FASB
  risks of. See traditional pension plans
  financial education, 103–04
  financial instability
  impact on funding ratio, 150–51
  financial literacy. See also financial education
dimensions of, 103–04
  first tier plans. See public pension systems
General Motors
  pension plan difficulties, 171
  Georges Simenon, 144
Germany
adjustment formula for first tier, 4
coverage of second tier, 23, 227, 230
need for increased contribution of second
and third tiers, 26
overview of second tier, 227–31
pension forms in, 228–30
pension tax regimes, 230
recent developments and issues, 230–31
group annuities
advantages of, 44
brokerage group rates, 202
Guaranteed Retirement Account (GRA), 181,
182, 213
hybrid pensions
cash balance plan (CB plan), 55–57
features of, 55–59
in Denmark, 225–26
in Switzerland. See Switzerland: overview
of second tier
pension equity plan (PEP), 59
IASB, 158
IAS 19, 150, 159–60, 241, 246
individual longevity risk
and phased withdrawals, 64
in-service annuity (ISA). See alternatives to
the traditional pension
Insurance and Superannuation Commission
(Australia), 216
insurance company model. See legal forms
International Accounting Standards Board.
See IASB
investor behavior, 41
ISA. See in-service annuity
Japan
coverage, 233, 235
financial literacy issues, 235
older pension forms, 231–33
overview of second tier, 231–35
the pre-reform period, 231–33
Keynes, John Maynard, 36, 36n
labour force coverage of second tier
decline in Anglo Saxon countries, 3, 205
trends in other countries, 205–06
Larkin, Phillip, 153
LDI. See liability driven investment
liability driven investment, 91, 93
life cycle model
overview, 36–39
qualifications, 39–42
life expectancy
at mid-20th century, 20
increases in, 145–46
longevity bonds, 188–90
national pension accounting standards
convergence of, 28
Netherlands
conditional indexation, 109
coverage of second tier, 237
current issues, 237
overview of second tier, 236–37
risk-sharing with traditional pension
plans, 4
unconditional indexation, 166
non-discrimination rules (United States), 98,
156, 250
notional defined contribution systems
limitations of, 133
Swedish model, 134–35
virtues of, 132
notional defined contribution variant.
See public pension systems and notional
defined contribution systems.
Occupational Superannuation Standards Act
(Australia), 216
Ontario, province of, 121, 221
Pension Benefit Guaranty Corporation
(PBGC). See pension plan insurance
pension foundation model. See legal forms
pension plan buyouts
in the United Kingdom, 74
pension plan funding
accrual methods of costing, 69
choice of discount rate, 72–79
complications posed by early separation, 72
prospective costing methods, 68–71
valuation of assets, 79–81
with indexed debt, 75–77
with risk-free discount rate, 73, 74
pension plan insurance, 168–69
pension plan regulation. See also regulatory
issues
rationale for, 94–97
Pension Protection Act of 2006 (United
States), 80, 118, 122, 161, 248
### Index

- **PEP.** See hybrid pensions:pension equity plan
  - phased withdrawals
    - managing, 59–64
  - provision of information, 102–03
  - prudent man standard. See prudent person rule
  - prudent person rule, 104–06
- **public pension systems**
  - automatic adjustment mechanisms (AAM), 135–36, 203–04
  - impact of demographic change on finances of, 130–31
  - notional defined contribution (NDC) variant, 131–33
  - solvency mechanisms, 136
- **public sector employer-provided plans.** See public sector pension plans
  - appropriate discount rate for, 124–27
  - Canadian, 121
  - coverage of, 116
  - funding shortfalls and their speed of adjustment, 127
  - possible reforms of U.S. plans, 202–03
  - pressures on, 7
  - reasons for survival of traditional form, 121–24
  - regulation of, 117
  - social investing and shareholder activism, 128–30
  - U.S. state and local, 117–20
- **quantitative restrictions on plan asset composition, 105**
- **RBS**
  - see risk-based supervision, 106
- **Registered Retirement Savings Plans (Canada), 221**
- **regulation.** See activist regulation, regulatory reform and regulatory issues
  - regulatory forbearance when plans are underfunded, 112
  - regulatory issues. See also regulatory reform for experiences of individual countries, individual country entries, and activist regulation
  - accounting and funding, 29
  - basic considerations with plan design, 208–09
  - regulatory reform
    - in Australia, 167
    - in Canada, 167
    - in Denmark, 226
    - in Germany, 165–66
    - in Japan, 163–65
    - in Sweden, 239
    - in Switzerland, 168
    - in the Netherlands, 166
    - in the United Kingdom, 162–63
    - in the United States, 159–62
  - relationship between finances of a pension plan and those of its sponsor, 82–84
  - reviving the traditional pension, 185–90
    - by altering its parameters, 186–87
    - by reducing its scale, 185
    - sponsor preference for phasing out, 187
    - through adjustments for changes in longevity, 188–90
  - Riester pensions. See Germany:overview of second tier
  - risk budgeting, 90–91
  - risk-based regulation
    - traditional standard. See prudent person rule
    - risk-based supervision, 104–06
      - and defined contribution plans, 111–12
      - Australian system, 218–19
      - Dutch system, 106–10
    - risks to retirement security, 5
    - role of collective bargaining in broad coverage, 21
  - Saver's Credit (United States), 252
  - saving obstacles to, 40
  - second tier plans. See employer-provided pensions
  - SIMPLE IRA (United States), 252
  - soft universal coverage, 100
  - Superannuation Guarantee, 216, See also Australia
  - supply-side influences on decline of the traditional pension, 145–72
    - aggregate longevity risk, 145–47
    - basic uncertainty, 170–72
    - change in the organization of work, 172
    - cost pressures and technological change, 169–70
    - financial instability, 147–55
    - increase in financial volatility, 151–54
    - regulatory reform and tax policy, 155–68
Index

Sweden
- current issues, 240
- overview of second tier, 238–40
- pension reform in, 4
- reform of first tier in, 4

Switzerland
- coverage of second tier, 240
- current issues, 242
- increasing coverage in, 23
- overview of second tier, 240–42
- regulatory issues, 240–41

target date funds, 92–93

tax expenditures
- in Australia, 220
- in the United States, 160, 161, 183, 184

taxation of contractual saving. See employer-provided pensions: tax issues
tax-qualified pension plan (TQPP).
- See Japan: older pension forms
tenure. See also traditional pension plans
cost of short tenures (box), 51
traditional model of financial investment, 84–86
traditional pension plans
- and mandatory second tier coverage, 180–82
- design issues, 47–50
- economic effects of, 53
- impact of tax incentives on, 183–84
- incentives for long tenure and separation, 52–53
- investment issues with, 82–91
- replacement rates of, 49–50
- risks of, 53
- role in broadening coverage of employer-provided plans, 180–84

traditional private sector plans.
- See also traditional pension plans reforms to, 7

traffic light model
- in Denmark, 226
- in Germany, 231
- in Sweden, 167, 239

trustee appointments
- conflicts of interest arising from, 113–14

United States
- coverage of second tier, 248
- current issues, 253
- overview of second tier, 252–53
- regulatory issues. See ERISA and Pension Protection Act of 2006

underfunding
- consequences of, 81–82
- in Canada, 150
- in Europe, 151
- in Japan, 151
- in the United Kingdom, 150
- the United States, 150

United Kingdom
- collapse of the traditional pension, 245–46
- coverage of second tier, 243–45
- current issues, 246–48
- financial literacy in, 247
- overview of second tier, 242–48
- Pension Act of 2004, 246
- pension reform in, 4
- Social Security Pension Act of 1975, 245

variable annuity with guaranteed minimum withdrawal benefit (GMWB), 191