

Index

A

Achievement gap,
106–109
Advanced manufacturing,
23–24
Amazon, 11–13
The American Prospect, 13–14,
60
Apple, 20–21

Atkinson, Robert, 67
Auto industry, 13–14

B

Bailey, Martin, 34
Balanced economy, 41
Blinder, Alan, 24–25
Bridgelux, 56–58
Brown, Alan, 44

INDEX

- Business risk, 6
Business
 government collaboration,
 139
 national interests and,
 169–172
BusinessWeek, 24
- C**
Careers, 114–117
Cato Institute, 32–33
Cell phones, manufacture of,
 14
Center for American Progress,
 32, 101
China, 15–17, 20–21, 24,
 46–49, 60, 94–98
Classroom innovation, 151
Clean energy, 87–94, 154–160
 China, 94–97
 Germany, 91–93
 U.S., 98–102
Colombia, 142–143
Commerce, changing, 164–165
Common Core standards, 150
Competition, for business,
 136–137
Computer chips, 26–27
Conservation, water, 121
Corporate taxes, 63–67
- Costs
 energy, 83–84
 labor, 59–63
 regulations, 69–73
 structural, 78–80
 taxes, 63–67
 trade, 74–80
Crisis, manufacturing, 25–27
- D**
Dell, Inc., 40
Department of Energy, 24
Doha Round, 143
Dow Chemical, 25–26
Dubai, 4
Duncan, Arne, 150
- E**
E-Ink, 12–13
Easterbrook, Gregg, 34
Economic framework, national,
 130, 134–143
Economic Policy Institute, 22,
 46
Economic Strategy Institute, 54
Economy
 balanced, 41
 manufacturing-based, 1,
 19–20, 35–36

Index

- service-based, 1, 19–20, 35–36
- adding value, 40–43
- Education, 105–109
 - effect on gross domestic product, 106–107
 - national standards, 150
 - reform, 147–153
 - standards, 110
 - STEM, 111–112
 - teacher, 110–111, 148–150
 - workforce, 111–113
- Energy
 - as opportunity, 84
 - conservation, 83
 - costs, 159–160
 - efficiency, 159
 - industry, 156–159
 - innovation, 158
 - market creation, 155–156
 - research and development, 158
 - use by sector, 82–86
- Energy policy, 88, 157–158
 - comparison by country, 88–89
 - U.S., 98–102
- Engineers
 - education of, 114–117
 - shortage, 113–114
- Enrollment, university, 116
- Enterprise, private, 170–172
- Ernst & Young, 68
- Evergreen Solar, 97
- Exports, 74–78
- F**
 - Federal Aid Highway Act, 120
 - Feed-in tariffs, 88, 91, 99
 - Feldt, Rick, 97
 - The Financial Times*, 50–51
 - Fingleton, Eamonn, 28
 - Forbes, 32
 - FormFactor, 54–56
 - Foxconn, 24
 - Free markets, 5–8
 - Free trade agreements, 74–78, 143
 - Friedman, Tom, 35, 56, 84–85, 96, 101
 - Furniture industry, 13–14
- G**
 - Gates, Bill, 108–109, 147
 - GDP. *See* gross domestic profit (GDP)
 - General Motors, 13–15
 - Germany, 28–29, 60, 62, 91–93
 - Germany Trade & Invest*, 93
 - Global markets, 16–17

INDEX

- Globalization, 2–3
Gomory, Ralph, 60
Government
 business collaboration, 139
 intervention in business, 130
 reinvention, 138–141
Green, William, 111
Gregg, Judd, 134
Gross domestic product (GDP),
 13, 35, 142
 education effect on,
 106–107
Grove, Andy, 24–25, 51, 163
Growth, 39–40
- H**
Human element, 147
- I**
Ikenson, Dan, 32–33
Immigration, 153–154
Incentives, to business,
 136–137
Industry, future, 23–24,
 118–124, 160–162
Infrastructure
 Australia, 126
 Brazil, 126
China, 126
costs, 118–127
Europe, 126
Japan, 126
private investment,
 161–162
upgrading, 122–127
Innovation, 4–5, 7–8, 44–49
 classroom, 151
 energy, 154–160
 manufacturing and, 44–51
Intellectual property, 50
International Energy Agency,
 84
Internet, 17
Intervention, government in
 business, 130
iPhone, 20
- J**
Job training, 31–32
- K**
Katz, Bruce, 125
Keithley, Cater, 71
Kennedy, John F., 145–146,
 167–168
Khandros, Igor, 54–56

Index

- Kindle, 11–13, 25
Kramer, Kenneth, 44–45
- L**
Labor costs, 59–63
Laia, Joseph, 58
Lawrence, Robert, 34
Light-emitting diodes (LEDs),
56–58
- M**
Manufacturing, 9, 14–18
advanced, 23–24
crisis, 25–27, 36–40
employment, 14, 37–39
future of, 22–25
innovation and, 44–51
jobs, 13–14, 31–34
opportunities, 171–172
output, 34–35, 38–39
reviving, 165–168
sector, 3–4, 13–14, 19–26,
32–35, 41, 82, 85, 87–94
United Kingdom, 27–29
Manufacturing a Better America,
54
Manufacturing industry, solar,
24
- Manufacturing-based economy,
1, 19–20, 35–36
McCain, John, 23
McCormack, Richard, 13–14,
60
McKinsey & Company,
106–107, 110
Mechanical Engineering, 44
MiaSolé, 58
Multiplier effect, 19–22
- N**
National Association of
Manufacturers, 19–20,
78
National Institute of Standards
and Technology, 32
National Science Foundation,
50
National standards, 72–73
education, 150
New Deal, 119
- O**
OECD. *See* Organisation for
Economic Co-operation
and Development
(OECD)

INDEX

Offshoring, 53–80

Offshoring of American Jobs,
24–25

Olevia, 12

Organisation for Economic
Co-operation and
Development (OECD),
67

Otellini, Paul, 56

P

Panama, 142–143

Parker, Kevin, 100

Partisanship, political,
168–169

Partners, trade, 141–143

Patent violations, 54

Phicom, 54

Pinto, Mark, 45–46

Policy change, 131

Prestowicz, Clyde, 54–55

Prime View, 13

Private enterprise, 170–172

Private infrastructure
investment, 161–162

Productivity, 35–39, 59–60

Q

Qianren Jihua, 39

R

R&D. *See* Research and
development (R&D)

Race to the Top, 150

Reagan, Ronald, 63–64

Reform

business, 169–172

education, 147–153

political, 168–169

Regulations, 69–73

automobiles, 71–72

benchmarks, 140–141

fuels, 72

national standards, 72–73

performance standard, 139

policy, 137–141

tires, 72–73

toys, 71

Regulatory policy, 137–141

Reich, Robert, 32, 34, 35

Renewable energy, 24, 84–97,
154–160

manufacturing equipment,
95

tax credits, 98–100

U.S., 98–102

use by country, 96

research and development

(R&D), 21, 24, 46–51,
67–69, 98, 103–105

energy, 158

Index

- tax credit, 135–136
- tax cut, 67–69
- Risk, 62
 - business, 6
- Romney, Mitt, 23
- Rules, 69–73

- S**
- Scaling process, 17
- Self-reporting, 140
- Semiconductors, 53–54
- Service sector, 17–18, 41
- Service-based economy, 1, 3–4,
19–20, 35–36
- Shah, Baiju R., 112
- Shortages, workers, 112,
116–117
- Shovel ready, 125
- Skills training, 151–152
- Skills, workplace,
109–111
- Solar manufacturing industry,
24
- Solar shingles, 26
- Solar Valley, 93
- Sonic Boom*, 34
- Sony, 40
- South Korea, 142–143
- Spence, Michael, 50–51
- Splinter, Mike, 45

- Steel, 41–42
- STEM
 - education, 111–112, 148,
149–150
 - scholarships, 152–153

- T**
- Tariffs, 74–78, 141–143
 - feed in, 88, 91, 99
- Tassey, Gregory, 32
- Tax credits
 - education, 152
 - employer, 152
 - research and development,
135–136
- Tax system, U.S., 134–136
- Taxes, 63–67
 - changes, 134–136
- Teacher education, 110–111,
148–150, 152–153
- Textiles, 14
- Tipfer, Klaus, 91
- Toy manufacturing, 71
- Trade, 73–78
 - agreements, 141–143
 - deficit, 16, 28, 74–78
 - partners, 74–78,
141–143
- Transportation bills,
124–125

INDEX

- Transportations Recall
 Enhancement,
 Accountability, and
 Documentation Act,
 72–73
Tucker, Amy, 71
- U**
U.S. Bureau of Economic
 Analysis, 19–20
Unemployment benefits,
 31–32
United Kingdom, 27–29
- V**
Value, adding, 40–43
- W**
Wages, 59–63
Water use, 121
Watkins, Bill, 57–58
Wischhusen, Michael,
 73
Worker shortage,
 111–113
World Trade Organization,
 16–17, 143
Wyden, Ron, 134
- Y**
Yergin, Daniel, 81
Yglesias, Matt, 32

<http://www.pbookshop.com>

<http://www.pbookshop.com>

<http://www.pbookshop.com>

<http://www.pbookshop.com>

<http://www.pbookshop.com>

<http://www.pbookshop.com>

<http://www.pbookshop.com>

<http://www.pbookshop.com>