Index

Index

a ggregate policies. 158. (See also Government policies.)	conceptdefined, 25, 16(L 174
Air Forcemolecular electronics program, 117	decline in, 25-26. 105-106
alloy specialty steel industry, 9, 32.75	economir growth and, 127, 128
alternative fuels. 143	findings summarized.3-4
American Motors, 44, 147	indicators of . 49, 65, 17.3-174
:1 n I idumping policies. (See dumping.)	in fluences on, 69-70
an Ii trust policies, 117, 155, 176,184-185	productivity and. 54-58.61
Appropriations Committee, House, 162	product reliability and, 38
AppropriationsCommittee,Sena le. 162	s tudyobjectives and scope, 2,1-24
AT&T, 117	technologicalinnovat 1011,1 nd, 6 1-65
automobileindustry	trade balance and, 50-54
competitive status, 14-16, 31, 104-105	wages and, 58-60
concentration, 42-43	See also specific industries
demandprojections, 140-141	computer industry
domestic boundaries defined, 33-34	andantitrustpolicies, 117
employment, 95	and com m unica Lion regulations d 17-1-18
future competitiveness, 127, 143-148	competitive status. 41.89-90.104
andgasoline prices, 1 18-120	demandprojections, 1 34-135
and highway construction, 120	Japa nese experience, 89-90
Japanese experience, 15-16,95-99	marketstrurt ure, 41-42
markets, 43-44	productivity, 55
product differentiation, 44	products defined, 33
productionandsales data, 53, 92-95	technological levels, 137
productivity, 55.57	tradepatterns, 52
products defined, 33	Seealso electronics industry
and regulation, 44. 120-123	concentration
size, 42	automobilemdustry, 42-4.1, 146-147
smaI1 carstrategies, 99-102	steelindustry, 35
technologicalinnovation, 141-143	conflir tof interestlaws, 187
wages, 59, 60	Congress.(See Government policies.)
nagouity, to	consumer electron irs indus I rv
Banking Committee, House, 162	demandprojections, 1.34
BankingCommittee, Senate, 162	importpenetration, 51, 76-77, 103
BellLaboratories, 40, 116, 117	marketshalrepatterns, 37-38, 80-82
BL Ltd., 146	overseasproduction, 77-78
Brazil, 75, 132	production rests, 79-80
BudgetCommittee, Senate, 162	productivity, 56.57
Bureau of Industrial Economics, 163	products defined, 33
The state of the s	researth and development, 79, 115-116
CAD(computer-aided design). 87	and trade protection, 114-116
Canada.71	wages, 59, 60
capitalmarkets, 105	See also electronics industry
and automobile industry, 144	consumption (sales)
and Govern men tpolicies, 139, 176-177	au tomobile industry, 14. 16. 92-95, 140-141
and stee] industry, 1 1 1-1 12	electronics industry, 134-135
capitalplant, 31	steelindustry, 1 1, 75-76, 103, 129
capital requirement ts.46	copyright policy, 117
a u tomobile i ndustry, 101. 144	Corporate AverageFuelEconomy [(; AFE)standards.119, 122
Japan ese experience, 89	144
semiconductor" industry, 40.88-89, 138	costs.(See production costs.)
steel industry, 132-133	costs and benefits analysis, 180-181
Carter, Jimmy, 132,185	Council of Economic Advisers, 154
Chrysler Corp., 43,44, 94, 101.120.146, 147	Council of Economic Advisors, 194
Commerce Committee. House. 162	Datsun,99, 146
Commerce Committee, Flouse, 162	Datsun, 99, 146 Defense Department, 88.156.163.188
Commerce Department, 73, 156, 159, 160	demand. (See consumption.)
compet it iveness	
capital markets and, 105	depreciationschedules, 113, 132, 139, 146
capital markets and, 103	dumping

consumer electronics, 78, 114-115 General Electric, 79,80 steel, 9-10, 31, 36-37, 72-73.103 General Motors, 43,44.101, 120.122, 141.146, 147 trigger-price mechanism, 73, 112, 131, 179 Government in the Sunshine Act. 187 Government policies Economic Development Agency (EDA), 112, 155 and automobile industry, 16, 44.94, 101, 118-123. 146 economic growth as causing market imperfections. 179-180 and competitiveness, 127, 128 and computer industry, 117-118 and steel consumption, 103 costs and benefits analysis, 160, 180-181 Education and Labor Committee, House, 162 and electronics industry, 114 electric vehicles. 143 French experience. 193-196 Electronic Industries Association, 114 industrial policy, 7-8, 151-152, 157-158 electronics industry Japanese experience, 190-193 competitive status, 12-14, 31, 91-92 legal constraints, 183-189 domestic boundaries defined, 33-34 legitimate function of, 3, 26-27.180 future competitiveness, 127, 133-134, 137-140, 147-148 macroindustrial policy, 8-9.20. 160-165 and Government policies, 114 market failure as rationale for. 175-179 technical personnel shortage, 90-91 overview and evaluation. 3-7, 17-20, 109-110. 123, 152-157, See ULSW computer industry: consumer electronics industry: 165 semiconductor industry political context underlying, 158 emission standards, 120- I 21 prerequisites for industrial pt)licl. 159-160 employment research support. 116-117 automobile industry, 14, 16, 95 and steel industry, 9-10, 37. 111-114 consumer electronics, 77 west German experience, 196-200 and productivity, 4, 11, 12, 26, 103 Great Britain, 61.75 steel industry, 74-75 gross domestic product (GDP), 61.128 Energy Department, 156, 163, 188 gross national product (GNP). 23 energy policies ratio of exports to. 50 gasoline price controls, 118-119 and steel industry, 113-114 highway construction." 120 Energy Policy and Conservation Act, 119 Hitachi, 90 Environmental Protection Agency (EPA), 120, 188 Honda. 43.99 environmental regulation and automobile industry, 120-122 IBhl. 40, 41, 82, 90, 114, 117, 176 and competitiveness, 17, 154 ICs (integrated circuits). (SW s~;nli(()[](i~]('l[)r In(iusl ri.) and steel industry, 10, 37, 113-114 import penetration Environment and Public Works Committee, Senate, 162 a u tomobile incius t ry, 92-95 Europe consumer electronics, 12.76-79 international Irade fl{)m's. 49-54 automobile industry, 141 import quotas. 181. (See (Iis{J I rade p[)iiclw+,) See orso dumping exchange rate effects. 73-74. 173 industrial policy. (See G(wernnleo t policies,) in tegra ted steel indust rv, 9, 32. (SW ~Ils[)s I eel Indus t r!.) Fairchild, 82,88, 116 integration. 40, 44.80, 88 Federal Advisory Committee Act, 187 Intel, 82 Federal Reserve Board, 154 International Iron and Steel Institut~?. 133 Federal Trade Commission, 160 International Track Commission." 73, 115, 160, 163-164 Fiat, 146 Intersil 88 Finance Committee, Senate, 154.162 investment st imula t i{)n. (S(?e ti] x p[)li('ies.) financial disclosure laws, 187 Isuzu, 147 Ford Motor Co., 43,44,94, 101, 120, 122, 141, 143, 146, 147 Foreign Affairs Committee, House. 162 Japan Foreign Relations Committee, Senate, 162 au tomobiie i ndus t rv, 15-16, 57-58, 95-99. 141 France computer indust rv. 89-90 GDP growth, 61 consumer electronics lodust rv, 77-80 c?xports GNP ra tie. 50 industrial policy. 193-196 Freedom of Information Act (FOIA), 186-187 GDP gr{w [h, 61 fuel economy, 99-101.121 industrial policies, 89. 139, 190-193 Fujitsu, 90 research and dew?1{)pment, 63.64 steel pr(ducti[)n costs. 73-74, I 03 \~i,si program, 83-85 gasoline prices, 118-120 General Agreement on Tariffs and Trade, (GATT), 73, 186 wag(? I rends. 60

```
Joint Committee on Taxation, 154
                                                                         steel industry, 34
Joint Economic Committee, 154, 162
                                                                       production costs
                                                                         automobile industry, 15
Labor and Human Resources Committee, Senate, 162
                                                                         Japanese experience, 73-74,79-80,97.103
labor costs, 15.97. (See also production costs.)
                                                                         semiconductor industry, 39
Labor Department, 160, 163
                                                                         steel industry, 35-37, 73, 129
labor market imperfections, 177-179
                                                                         televisions, 78
]egal issues, 183-189
                                                                       productivity y
licensing fees, 64-65
                                                                         automobile industry, 14
Joan guarantees, 26-27, 112, 146, 155
                                                                         and competitiveness, 49, 54-58, 61
Lockheed, 82
                                                                         and employment, 4, 11, 12, 26, 74-75, 103
                                                                         Japanese experience, 57-58,98
macroeconomic policies, 153-154. (See also Government poli-
                                                                       product market imperfections, 176
                                                                      profitability
macroindustrial policy. [See Government policies. )
                                                                         semiconductor industry, 40
manpower, 90-91, 117, 139
                                                                         steel industry, 37
manufacturing costs. (See production costs. )
                                                                       protectionism. (See trade policies. )
market
                                                                       public policy. (See Government policies. )
  failures, 175-180
  Japanese strategies, 95,99
                                                                       quality, 38,41.79, 87
  shares, 80-82, 155
                                                                      quotas, 181. (See UISO trade policies. )
  structure, 41-42, 44
                                                                       radios. (See consumer electronics industry; electronics in-
  See also capital markets
                                                                           dustry.)
Mexico, 71, 75
                                                                      RAM [random amess memory). 54,82, 136
microcars, 143
                                                                      RCA, 65, 79,80, 114, 138, 170
microcomputers, 41, 136
microprocessors, 39, 87, 136-137
                                                                       reference prices, 112
                                                                       regulatory policies. [See environmental re~ulation. )
military research, 63-64, 116-117
                                                                       reliability, 38, 41, 77-79, 87-88
minicomputers, 41
                                                                       Renault, 146, 147
minimills, 10
Mitsubishi, 90.1.47
                                                                      research and development
                                                                         and antitrust laws, 176, 184-185
molecular electronics, 117
                                                                         and competitiveness, 61-65, 171-173
Nlostek, 88
                                                                         consumer ele~lronics, 79, 103
hfotorola. 77,82,88
                                                                         ownership issue, 188
Multilateral Trade Agreements (MTAs), 139, 186
                                                                         semiconductors, 40
                                                                         steel industry, 35-36, 103, 132
National Aeronautics and Space Administration, 156, 163, 188
                                                                         stimulation of, 138-139, 156, 164
National Highway Traffic % fety Administration (NHTSA), 120
                                                                       road construction, 120
National Productivity Council, 163
                                                                      Rockwell, 82
National Science Foundation, 156
                                                                      royalties, 64-65
Nippon '1'elegraph and Telephone Public Corp., 116, 139
Nissan, 122
                                                                      safety standards, 121. [See OISO workplace health and safety. )
nonintf?grated steel industry, 9, 31, 32.35
                                                                      Science and Technology Committee, House, 162
                                                                      sectoral policies, 157. (See UJSO Government policies. )
occupational safety. (See workplace health and safety. )
                                                                      semiconductor industry
Office of Management and Budget, 154
Office of Science and Technology Policy, 156
                                                                         capital requirements, 40, 88-89
                                                                        captive production, 82
OPEC, 119
                                                                        competitive status, 103-104
Orderly Marketing Agreements, 37, 51, 76.115, 179
                                                                         cost savings, 39
overseas production, 77-78
ownership of techn[dogy. 188
                                                                        demand projections. 134
                                                                         foreign competitive efforts, 82-84
                                                                         integration, 40, 88
patent policy. 117, 188
                                                                         productivity, 55-56
Peugot-Citr[)en, 146
                                                                         product reliability, 41,87-88
prices
                                                                         products defined, 33
  controls, 110
                                                                         research and development, 40, 116-117
  steel industry, 70-71
                                                                         technological] levels, 38, 84-88, 136
product differentiation, 46
                                                                         trade pat terns, 51-52, 54
  a u Iomohi ] e i ndus t r}', 16, 44, 148
                                                                      Sec also electronics industry
  Japanese automobile" industry, 15
```

Sherman Act, 184-185	Toyota, 99, 122, 146
Small Business Administration, 122-123	trade adjustment assistance (TAA), 155-156, 164
Small Business Committee, House, 162	Trade Agreements Act of 1979, 162-163
software, 88, 90, 117, 137	trade policies
Solomon, Anthony, 112	automobile industry, 95, 143-144
Solomon Plan, 112-113	and competitiveness, 17, 154-155
Sony, 78, 115	electronics industry, 114-116, 139-140
South Korea, 11,51, 75, 115, 133	legal constraints, 185-186
Steel Caucus, 162	protectionism, effects of, 181-182
steel industry	steel industry, 9-10, 111-113, 131
capital plant, 31	Trade Policy Committee, 163
competitive status, 9-11, 102-103	Treasury Department, 115, 154, 160
concentration, 35	trigger-price mechanism (TPM), 73, 112, 131, 179
demand patterns, 75-76, 129	truck industry, (See automobile industry.)
and dumping, 31, 36-37, 72-73	Truman, Harry S., 110
employment, 74-75	turbocharged engines, 143
and exchange rate fluctuations, 73-74	
future competitiveness, 127, 129-133, 147	unemployment. (See employ merit.)
import penetration, 51	United Auto Workers, 143
price behavior, 70-71	Urban Development Administration Group, 155
price controls, 110	U.S. Steel. 35, 36
production costs, 35-37	
productivity, 55, 57,65	value-added, 44
and regulation, 113-114	value-to-weight ratio, 36, 41
sectors and products, 32, 34	VHSIC (very high-speed integrated circuit), 88, 116-117
and technological innovation, 35-36	video cassette recorders, 37, 79
Third World capacity, 133	video disk players, 37, 79, 138
trade protection, 111-113	VLSI (very large-scale integrated circuit), 83-85,88
wages, 59, 70, 71	Volkswagen, 43,92, 99, 122, 146
Steel Tripartite Advisory Committee, 113, 159	Voluntary Restraint Agreements (VRAS), 111-112, 179, 185
Sumitomo Metal Industries, 36	
supply and demand, (See consumption.)	wages
	and competitiveness, 49, 58-60
Taiwan, 51, 115	Japanese experience, 60
tariffs, 181. (See u]so trade policies,)	steel industry, 70, 71, 102-103
tax policies	Ways and Means Commit tee, House, 154, 162
and automobile industry, 144-146	Western Electric, 40,82, 176
and competitiveness, 17, 153-154, 164	West Germany
and research stimulation, 138-139	GDP growth, 61
and stee] industry, 113, 132	industrial policy, 196-200
technical personnel, 90-91, 117, 139	research and development, 63, 64
technological innovation. (See research and development.)	Westinghouse, 82
technological levels, 46	workplace health and safety
automobile industry, 96-97, 141-143	and automobile industry, 121
electronics industry, 84-88, 135-137	and product ion costs, :37
steel industry, 36	and steel indusl ry, 113-114
televisions. (See consumer electronics industry; electronics in-	world car, 16, 148
dustry.)	
Texas Instrumenls, 80, 82,88, 116	Xerox, 170
Third World. 133, 141	
Toshiba, 90	Z[?nit h, 80
Tovo Kogvo, 147	