

# Index

- Anshan Iron and Steel Mill, 17, 20, 40, 48  
Applied research, 3, 57–59, 76  
Applied technology, 47  
Appropriate technology, 96  
Baogang Iron and Steel Complex, 18  
Basic capital construction investment, 23, 31, 33, 57, 91  
Basic depreciation funds, 22–23  
Basic research, 2, 47–48, 58–59, 69, 76–77, 98  
Centralized economic system, 20  
Changchun No. 1 Automobile Plant, 17, 40, 48, 70  
China Association for Science and Technology, 50  
China National Machinery Import and Export Corporation, 31, 38–39  
China National Technical Import Corporation, 31, 38  
Chinese Academy of Sciences, 46–49, 58  
Coastal areas development strategy, 106  
Commission of Science, Technology and Industry for National Defense, 50, 54, 72  
Commodification of technology, 98. *See also* Technology as a commodity  
Compulsory education, 7  
Compulsory planning, 99  
Cultural Revolution, 2–3, 7, 29, 41, 50, 57  
*Daerguan* (“big and having everything necessary”). 27  
Daqing Oil Field, 40  
*Danwei* (“unit”), 75  
Decentralization, 46, 99, 104  
Defense-related R&D, 54. *See also* Technology: military  
Depreciation: the rate of, 20–22, 24; funds 23–24, 51–52  
Deregulation, 2, 99  
Design institute (*shejiyuan*), 39, 41, 47, 70, 80  
Development strategy, 14, 90, 105: export-oriented strategy, 14, 92; import-substitution strategy, 10, 17, 20, 34, 37–38, 93; inward-looking, 8, 14; outward-looking, 8  
*Dingtigong* (“substituted workers”), 80  
Elementary education, 5–6  
Entrepreneurship, 101  
Enterprise fund, 78–79, 102  
Enterprise Bankruptcy Law, 105  
Extensive growth strategy, 26  
First Five-Year Plan, 22, 31, 44  
Fixed assets, 20, 22, 26, 51–52, 96  
Foreign direct investment, 104  
*Gongguan* (“tackling key problems”), 16, 39, 43, 50, 96; projects, 18, 40, 50, 52, 56, 68, 76  
Great Leap Forward, 15, 20, 22, 29, 37, 41, 44, 51, 57  
Heavy and chemical industrialization, 10, 15  
Hubei No. 2 Automobile Plant, 17, 40

- Illiteracy rate, 5, 8  
 Import-dependency ratio, 18  
 Indigenous technology, 26, 34  
 Industrial standards, 8, 27–29, 41–42, 47  
 Industrialization strategy. *See* Development strategy  
 Infant industries, 38, 104  
 Investment for renovation and reconstruction, 23–24  
 Investment hunger, 99  
 International Convention for the Protection of Industrial Property, 8  
 Joint venture, 70, 82, 105  
 Key universities, 48, 50  
 Local Industrialization, 34  
 Management responsibility system, 101–2, 105  
 Market mechanism, 2, 4, 20, 23, 26, 77, 102  
 Market demand pull, 3, 99  
 Mass production, 30, 34, 90  
 Microelectronics (ME), 1–2, 89–91, 96  
 Military industries, 17, 26  
 Ministry: of Electronics Industry, 49–50; of Aviation Industry, 49–50, 72; of Astronautics Industry, 49–50, 72; of Ordnance Industry, 49–50, 72  
 National Defense Commission of Science and Technology, 46, 50  
 Natural scientific and technical personnel, 58, 61–62, 64  
 Open-door policy, 105  
*Panbi* (“equality with others”), 102  
 Panjihua Iron and Steel Mill, 17, 40, 70  
 The Party Central Committee’s decisions on the reform of the scientific and technological system, 68, 72–73, 98  
 Patent Law (*Zhuanglifa*), 8, 69  
 Postgraduate education, 8  
 Price reform, 105, 107  
 Production fractionizing system, 80  
 Qian Xuesen, 2  
 R&D expenditures, 51–58: expenditures on four items (*sixiang feiyong*), 22, 51, 54; science and technology expenditures on three items, 51–52, 54  
 Retained profit, 22, 52, 54, 71, 74, 77, 86  
 Reverse engineering, 18, 38  
 Science and production complex, 70, 74  
 Science and research expenditures, 51  
 Sectionalism, 26, 39, 43, 46, 94  
 Self-reliance, 2, 6, 104, 106  
 Social equality, 6  
 Socialist industrialization, 14  
 State Education Commission, 48, 52  
 State Natural Science Foundation Committee, 69  
 State Planning Commission, xi, 44–45, 52  
 State Science and Technology Commission (SSTC), xi, 44–46, 52, 69  
 Technology: as a commodity, 70; dual-use, 54, 58; embargo, 30, 89; innovation, 1–2, 7, 22–23, 34, 41, 68, 70, 77, 86–89, 106; market, 69; military, 2–3, 49; transfer, 8, 41–42, 69, 84–85, 104  
 Technological Contract Law, 70  
 Third Wave, 2, 88, 104, 108  
 Tian’anmen Square incident, xii, 106  
*Tiefanwan* (“iron rice bowl”), 105  
 Toffler, Alvin, 2, 88, 104  
*Tu biaojun* (“indigenous standards”), 29  
 Turn-key packages, 37  
 Vintage, 20–21  
 Walking-on-two-legs, 26  
*Xiaoerquan* (“small but having everything necessary”), 27