

Index

- American economic security
 - American perspectives on 63–6, 102–6
 - American way of 157–8
 - China factor in 67–71
 - and globalization 66–7
 - landscape 55–62
 - referents of 62–3
 - and Sino-American structural integration 138–9
 - see also* United States
- American economic security policy
 - contributing actors 56
 - daunting policy dilemmas 155–6
 - decentralized community 55
 - factor imposing constraints on 61
 - as inter-agency process 58
 - need for adaptability to evolving requirements 73
 - need for more careful balancing of objectives 161
 - noteworthy features 71–2
 - practice under Trump 158
 - representing balancing act 156
 - resting on Cold War foundations 72–3
 - some continuity in 62
- American perspectives
 - on China 68, 105
 - on economic security
 - requirements of 63–6
 - and technology 102–6
- Arms Export Control Act (AECA) 108
- arms production
 - China
 - access to American, subject to controls 112–13
 - pursuing autonomy 98
 - threats to boycott American 54
 - complete autonomy as ideal 63
 - comprehensive economic security 107
 - and DoD 61
 - and industrial isolationism 21
 - and Japan 66–7
 - national economic security 101
 - and PLA 39, 52, 95, 98, 119
 - reliance on foreign industry for components 75
 - sensitive technologies 111
 - shared space permitting 31
 - SOEs 41
 - spiralling development costs 57, 104
 - structural integration 147
 - sustainability in times of conflict 78
 - technology transfers 72, 105, 107–9, 111–12, 116
 - unauthorized use of parts triggering investigations 93
 - United States
 - Chinese-controlled firms in, contributing to 77
 - engaging in economic statecraft 97
 - export of components 94
 - firms banned from using Chinese components 85, 88

- Asia-Pacific Economic Cooperation (APEC) 5, 8, 50, 72
- Asian Financial Crisis 3, 45, 47, 50–51, 66, 72
- Asian Infrastructure Investment Bank (AIIB) 25, 54
- Association of Southeast Asian Nations (ASEAN) 152
- autonomy
- China
 - defence-industrial base 43, 95, 98–9, 147, 159
 - industrial enterprises 40
 - production processes 96
 - strategic ‘pillar’ industries 151
 - as critical issue for national economic security 2, 6, 21, 28, 31, 98
 - globalization generating concern over industrial 50, 67
 - import substitution practised in interest of defence-industrial 98–9
 - production of arms
 - America 63
 - China 98
 - technological 117, 120, 127
- Aviation Industry Corporation of China (AVIC) 40, 132
- Belt and Road Initiative (BRI) 25, 54, 152–3, 159–60
- bilateral engagement 5
- bilateral investment treaty (BIT) 141, 150–151
- bilateralism 30, 158
- Bretton Woods 25, 33, 69, 71, 152
- Bureau of Industry and Security (BIS) 108
- Bush, George W. 5, 56, 108
- Buy American Act (BAA) 59, 61, 78, 85
- China
 - economic security 44–8
 - with Chinese characteristics 43–4
 - Chinese way of 159–60
 - factor in American 67–71
 - national/comprehensive nexus 47–8
 - pursuit of national and comprehensive 160–163
 - and technology, perspectives on 102–3, 117–22
 - United States in considerations of 51–3
 - economic security policy
 - daunting policy dilemmas 155–6
 - developments in 53–4
 - globalization reinforcing transformation of 28
 - need for more careful balancing of objectives 161
 - perspectives on 53
 - representing balancing act 156
 - threat to key feature of 48
 - as ‘opening in all directions’ 48–51
 - policy landscape 36–43, 133
 - production relations
 - with United States 94–100
 - United States with 78–94
 - structural integration
 - and development 142–53
 - with United States 143–53
 - United States with 134–41
 - technology relations
 - critical technology 127–8
 - with United States 122–7
 - United States with 106–16

see also Sino-American relations

China Communications Standards Association (CCSA) 125

China Development Bank (CDB) 43

- 'China Green Line' 105
- China National Aero-Technology Import and Export Corporation (CATIC) 136
- Chinese Academy of Sciences (CAS) 41–2
- Chinese Communist Party (CCP) 43–4, 48
- civil–military integration (CMI) 97, 118, 142–3, 146
- Clinton, Bill 56, 64, 103
- Commerce Control List (CCL) 108
- Commercial Aircraft Corporation of China (COMAC) 40
- commercial off-the-shelf (COTS) 93
- Commission of Science, Technology and Industry for National Defence (COSTIND) 149
- Committee on Foreign Investment in the United States (CFIUS) 58, 62, 88, 115, 136–41, 144–5
- competitiveness
 - of American firms 64, 88
 - of American industry 63–8, 83, 92, 103–4, 113
 - of Chinese firms 49–50, 78
 - of Chinese industry 87, 96, 125, 131
 - close association with industry success 25–6
 - and comprehensive economic security 4, 28, 31, 161
 - global innovation networks crucial to 28
 - increasing tensions 4, 128, 156, 160
 - quest for 27
 - structural integration contributing to 129–30
 - technological progress as crucial to 103, 118
- comprehensive economic security
 - and competitiveness 4, 28, 31, 161
 - conceptualization of 21–2
 - continuing importance of 9
 - critical issues for 26
 - driving economic internationalism 1 and globalization 29, 67
 - importance attached to in China 45–6, 156
 - inclusivity of 21–2
 - and industrial integration 6, 129–30, 134–41, 143, 146–51, 153
 - nature of threats 23–4
 - policy 24–6, 34
 - and production relations 74–5, 78, 80, 82–5, 87–8, 93–4, 96–8, 100
 - pursuit of, in United States and China 160–63
 - referent objects of 22–3
 - and technology relations 101, 103–14, 117–19, 121–2, 126–8
 - see also* national/comprehensive economic security nexus
 - 'comprehensive security' 22, 45, 57
- Coordinating Committee for Multilateral Export Controls (COCOM) 105, 107, 113
- Critical Technologies Plan (CTP) 104
- critical technology 127–8
- cyber espionage 106
- Defense Advanced Research Projects Agency (DARPA) 103
- Defense Production Act (DPA) 89, 138
- Defense Technology and Trade Initiative (DTTI) 90–91
- Deng Xiaoping 44, 48–9, 117, 121
- Department of Commerce (DoC) 57–8, 70, 108–9, 115, 140
- Department of Defense (DoD)
 - attention to issue of counterfeit parts 82
 - and Buy American Act 59, 61

- developing closer functional relations with industry 61
- FDI
 - concern over Chinese 135
 - in US defence sector 132–3
- interests and focus 57
- in managing production relations with China 85–9, 92–3
- more restrictive approach to technology transfers 58
- opposition to efforts to strengthen national defence-industrial base 140
- potential to deny export licences 115
- production of Critical Technologies Plan 104
- recognition of US and China sharing common ground 70
- REEs as issue of concern 81
- views on globalization 67
- Department of Homeland Security (DHS) 58, 80, 85, 91–2
- Department of State (DoS) 57, 70, 108, 115
- DoD *see* Department of Defense (DoD)
- East Asia
 - America and Asian Financial Crisis 72
 - American openness to industry-led economic regionalization in 63
 - China and America as important actors in 162
 - China's capacity for political leverage 69
 - China's concerns about American security policy in 52
 - concern over competition from 103
 - economic coercion against 160
 - economic competition from 64
 - economic security
 - complexity of environment 33
 - 'comprehensive' approach to 22
 - pursuit of 7–9
 - requirements of national 33
 - transformation of landscape 163
 - globalization in 27, 29, 33
 - high-technology industry
 - collaboration 162
 - implications for economic multilateralism 163
 - importance of industrial ties to United States and China 134, 162–3
 - importance of political environment 162
 - as important site of Sino-American engagement 32
 - regional environment 7–9, 63, 162
 - technological collaborations with 76, 122
- economic globalization
 - America countering de-politicizing tendencies of 83
 - as cause of concern for United States 55, 62, 79
 - China
 - embracing processes of 49
 - familiarity with 7
 - as 'double-edged sword' in Asia 50
 - in East Asia 33
 - and economic security 26–30
 - impact on American 66–7
 - eroding distinction between defence and civil industrial activities 65–6
 - structural transformation in form of 102
 - economic security
 - challenges 2, 4, 6–7, 36, 151, 159
 - changing regional context of 32–4
 - China 44–8

- with Chinese characteristics 43–4
- Chinese way of 159–60
- factor in American 67–71
- and technology, perspectives on 102–3, 117–22
- United States in considerations of 51–3
- common and uncommon ground in pursuit of 155–60
- conceptualization of 16–18
- concerns lying at heart of Sino-American relations 1–7
- of East Asia 7–9, 22, 33, 163
- and economic globalization 26–30
- and production relations 74–5
- technology requirements 101–3
- terminology 17
- United States
 - China factor in 67–71
 - in Chinese considerations 51–3
 - and globalization 66–7
 - landscape 55–62
 - perspectives on 63–6, 102–6
 - pursuit of national and comprehensive 160–163
 - referents of 62–3
 - and Sino-American structural integration 138–9
 - way of 157–8
- see also* comprehensive economic security; national/comprehensive economic security nexus; national economic security
- ‘economic security dilemma’ 26
- economic security policy
 - American 55–6, 58, 61–2, 71–3, 156, 158, 161
 - analysing 6, 34–5
 - challenges 6–7
 - Chinese 37–8, 42, 48, 53–4, 156, 161
 - comprehensive 24–6
 - dilemma 2, 155–6
 - lineage of concept 17
 - national 20–21
- economic statecraft
 - China’s use of 45, 53–4
 - and globalization 29–30
 - and national economic security 20–21
 - as prominent feature of American policy 72
 - propensity of America to engage in 97
- economic strength
 - complementary 4
 - enhancing national 20
 - importance as basis for military power 45
- Export Administration Act (EAA) 108
- foreign direct investment (FDI)
 - Chinese 135, 143
 - DoD report on 132–3
 - US more open to 131
- foreign owned, controlled or influenced (FOCI) 133, 140
- free trade agreements (FTAs) 113, 152
- Free Trade Area of the Asia Pacific (FTAAP) 152
- Global Financial Crisis 3, 65, 68
- global innovation networks (GINs) 27–8, 102
- global production networks (GPNs) 27–8
- Global Program Authority (GPA) 104
- globalization *see* economic globalization
- ‘Going Out’/‘Going Global’ policy 49–50, 143–4
- ‘Great Leap Outward’ 48

- Great Proletarian Cultural Revolution (GPCR) 21, 45
- high-performing economies (HPEs) 8, 32, 162
- High-Technology Development Zones (HTDZs) 123
- Huawei Technologies 41, 49, 115, 124, 131–2, 135, 137, 139, 141
- IBM (International Business Machines Corporation) 135, 137
- ICT (information and communications technology) 10, 124
- industrial espionage 106, 110–11, 126
- industrial integration
 - accelerating pace of 26
 - basic dimension of 13
 - concerns about transnational 50
 - deepening Sino-American 101, 116, 127, 156–7
 - difficulties 6, 66, 107, 127
 - DoD's position on 57
 - of East Asia 7–8
 - importance to American
 - high-technology industry 84
 - importance to comprehensive economic security 14–15
 - managing Sino-American 136–41, 163
 - as poorly supported by state-to-state engagement 5
 - uneven landscape of Sino-American 132–3
 - see also* structural integration
- industrial nationalism 19
- integrated circuits (ICs) 86
- intellectual property (IP) 103–4, 106, 110, 113, 116, 122, 126, 139
- intellectual property rights (IPR) 3, 68, 103–6, 110, 113, 123, 127
- inter-state collaboration 21, 25, 29, 127, 163
- International Intellectual Property Association (IIPA) 60
- International Traffic in Arms Regulations (ITAR) 113
- internationalization 27
- Joint Commission on Commerce and Trade (JCCT) 5, 126
- Joint Strike Fighter (JSF) 57, 104
- joint ventures (JVs) 13, 49, 97, 99, 104, 130
- managing
 - globalization 29–30
 - production relations
 - with China 83–94
 - with United States 97–100
 - Sino-American industrial integration 136–41, 163
 - structural integration 148, 150–51
- manufacturing security *see* production relations
- Mao Zedong 37, 44, 48
- mergers and acquisitions
 - of American high-technology firms 115, 124, 132
 - American interest in monitoring 61
 - blocked Chinese 144
 - of Chinese high-technology enterprises 147
 - Chinese seeking control of American firms through 134
 - emergence of more flexible position on 145
 - of firms in defence field 149
 - regulatory and surveillance measures 141
 - in Sino-American industrial integration 136–41
 - and structural integration 130

- as vehicles of technology diffusion 124, 132
- Ministry of Commerce (MOC/MOFCOM) 38, 39, 99, 148
- Ministry of Foreign Affairs (MFA) 38–9, 49, 144–5
- Ministry of Industry and Information Technology (MIIT) 38
- Ministry of Science and Technology (MOST) 38, 98, 119
- Missile Technology Control Regime (MTCR) 112, 113
- most-favoured nation (MFN) 52, 56, 60, 70–71
- multinational enterprises (MNEs)
 - American-based 27
 - China with growing number of 48
 - Chinese exports derived from 76
 - local production by foreign-based 97
- national/comprehensive economic security nexus
 - balance 2, 129, 151, 153–4
 - in China 47–8
 - crucial distinction 17–18
 - eroding divide 161
 - main policy differences 31
 - nature of 30–31
 - points of contact between 31
 - pursuit of both in tandem
 - challenges to 32, 155–6
 - interest in China 47–8
 - priority in both states 156
 - some scope for 31
 - striking balance 160–63
 - structural integration between 153–4
 - tensions between
 - complicating pursuit of economic security 9, 155
 - concerns greater in United States 11–12
 - conflicting demands of 2
 - producing complex policy agendas 16
 - in United States 63–6
- National Development and Reform Commission (NDRC) 39, 119, 148
- National Economic Council (NEC) 64, 103, 115
- national economic security
 - autonomy as critical for 2, 6, 21, 28, 31, 98
 - concern over
 - in China 45, 48, 155–6
 - in United States 4, 62, 65–6, 68, 155–8, 160
 - critical issues for 21
 - driving economic nationalism 1
 - in East Asia 33–4
 - heightened attention to requirements of
 - in China 37
 - in United States 53, 58, 63–4, 155, 157
 - history and terminology 18
 - implications of economic globalization 28–9, 55, 67
 - importance attached to in China 45
 - and industrial integration 6, 9, 129–30, 132–7, 139–43, 145–53
 - national defence-industrial base holding advantages for 57
 - nature of threats 19
 - PLA's strong focus on 38–9
 - policy 20–21
 - and production relations 74–5, 78–80, 82–5, 87, 89–91, 93–6, 98
 - pursuit of, in United States and China 160–63
 - referent objects of 19

- and technology relations 101–5, 107–9, 112–14, 117, 126
- see also* national/comprehensive economic security nexus
- National Indigenous Innovation Product (NIIP) 125
- ‘national resilience’ 29
- NATO (North Atlantic Treaty Organization) 71, 86, 90, 141
- ‘normalization’ of Sino-American relations 2, 5, 11, 15, 49, 105, 121, 132

- Obama, Barack 52, 56, 106, 111, 122
- Office of Science and Technology Policy (OSTP) 85–6, 103, 115, 152
- Office of Technology Assessment (OTA) 78
- One Belt, One Road (OBOR) 152
- ‘Open Door Policy’ 48–9

- People’s Liberation Army (PLA)
 - Chinese authorities determined to transform 119
 - concerns about American security policy 52
 - links to espionage 111
 - and private sector defence R&D 42
 - production relations with United States 92, 94–6, 98
 - as significant defence-industrial actor 38–9
 - strong support for modernization of 45
 - tensions with civilian ministries 39
- permanent normal trade relations (PNTR) 60
- ‘pillar’ industries 43, 61, 98, 151
- PLA *see* People’s Liberation Army (PLA)
- policy
 - China’s landscape 36–43, 133
 - comprehensive economic security 24–6, 34
 - effect of globalization in
 - constraining options 29–30
 - national economic security 20–21
 - see also* economic security policy
 - production relations
 - China with United States 94–100
 - and economic security 74–5
 - Sino-American 76–8
 - United States with China 78–94

- R&D (research and development)
 - China
 - developing capacity to contribute to 157
 - firms’ contributions to 41–2, 49, 77–8
 - having little incentive to limit 159
 - state and private investment in 118–19
 - technology relations with United States 122–7
 - close relation to globalization of production 27–8
 - East Asia’s dense network of arrangements 7
 - restrictions on collaborative 2
 - Sino-American industrial integration 129–31, 136, 143, 148–50
 - and ‘technology security’ 102
 - tensions over 39
 - United States
 - China’s technology relations with 159
 - driven to accept collaborative programmes 104, 106
 - firms’ Chinese subsidiaries 115
 - limited capacity to address concerns over 114–15, 157

- restricting inter-firm collaboration 108
- rare earth elements (REEs) 59, 77, 80–81, 84–5, 88–9, 91, 99
- REEs *see* rare earth elements (REEs)
- Regional Comprehensive Economic Partnership (RCEP) 152
- regional context of economic security 32–4
- regional environment of East Asia 7–9, 63, 162
- regional implications of China's development 69, 152
- Revolution in Military Affairs (RMA) 38, 63
- science and technology (S&T) 13, 117
- security competition 70
- Semiconductor Manufacturing International Corporation (SMIC) 92
- Semiconductor Manufacturing Technology (SEMATECH) 103
- semiconductors
 - American industry
 - establishment of rival 60
 - supplanted by competitors 64
 - threats to 103
 - China
 - appetite for foreign-produced 96
 - establishing standards for 99
 - tax rebate initiative 93
 - globalization of production 27
- Sino-American relations
 - as approaching crossroads 1
 - economic security
 - balancing act between 155–63
 - concerns lying at heart of 1–7
 - 'honeymoon' of 3
 - managing industrial integration 136–41, 163
 - 'normalization' of 2, 5, 11, 15, 49, 105, 121, 132
 - production 76–8
 - special economic zones (SEZs) 48–9, 76
 - State Administration for Science, Technology and Industry for National Defence (SASTIND) 38, 99
 - State-owned Assets Supervision and Administration Commission (SASAC) 40, 43, 147–9
 - state-owned enterprises (SOEs)
 - in Chinese policy landscape 38–43
 - as contributors to national and comprehensive economic security 32
 - defence-oriented 38, 41–2, 127, 142–3
 - dominant role in defence production 96
 - engagement of foreign industry 49
 - Huawei as quasi-SOE 137
 - industrial reforms driving competitiveness in 131
 - investment in R&D 118
 - mergers and acquisitions 124
 - public welfare or profit considerations 98
 - in relations with United States 126, 135, 141, 143–7, 149
 - state dominating production processes through 82
 - State Science and Technology Commission (SSTC) 123
 - state socialism 25
 - Strategic and Economic Dialogue (S&ED)
 - meeting 125, 135, 144, 150
 - process 72, 110, 122, 141
 - renaming 5
 - Strategic Economic Dialogue (SED) 5
 - 'strategic industries' 43, 61, 98, 151

- structural integration
 - China with United States 143–53
 - and development; China constructs 142–53
 - between industry and state 129–34
 - between national and comprehensive economic security 153–4
 - United States with China 134–41
- study approach 10–12
- study objective 9
- supply chain security (SCS) 80, 84–5, 88, 91–2
- supply chains
 - adherence to guidelines as intermittent 92–3
 - concerns over integrity of 92
 - defence 105
 - establishing robust 143
 - global 27
 - knowledge of contributors to 87
 - problems when subject to multiple regulatory systems 29
 - and production security 79–80
 - structural integration developing through 130
- ‘techno-nationalism’ 20
 - American perspectives on 103–6
 - Chinese perspectives on 117–22
 - technology requirements 101–3
- technology, critical 127–8
- technology relations
 - China with United States 122–7
 - United States with China 106–16
- Trade-Related Aspects of Intellectual Property Rights (TRIPS) agreement 105, 110, 113
- Trans-Pacific Partnership (TPP) 152, 158
- Trump, Donald 56, 70, 97, 141, 150–51, 153, 158–9
- United States
 - economic security
 - China factor in 67–71
 - in Chinese considerations of 51–3
 - and globalization 66–7
 - landscape 55–62
 - perspectives on 63–6, 102–6
 - pursuit of national and comprehensive 160–63
 - referents of 62–3
 - and Sino-American structural integration 138–9
 - way of 157–8
 - production relations
 - with China 78–94
 - China with 94–100
 - structural integration
 - with China 134–41
 - China with 143–53
 - technology
 - critical 127–8
 - perspectives on 102–6
 - technology relations
 - with China 106–16
 - China with 122–7
 - see also* American economic security policy; Sino-American relations
 - United States Trade Representative (USTR) 56–7, 110
 - U.S.–China Economic and Security Review Commission (USCC) 59–60, 80–81, 88
 - US Munitions List (USML) 108
 - Wassenaar Arrangement on Export Controls for Conventional Arms and Dual-Use Goods and Technologies (WA) 113
 - World Trade Organization (WTO)
 - America’s recourse to 111, 158
 - China engaging US in 126–7

- China joining 50
- China's commitment to standards of behaviours 54
- China's obligations 37, 57, 124–5, 134, 152
- Congress and China 60
- as multilateral forum 5
- reducing international trade barriers 28
- ruling on China's export policy 81, 91
- ruling on tax rebate on semiconductors 93
- terms of engagement restricting states 30
- TRIPS administered by 105
- Xi Jinping 5, 45, 111, 120, 146, 160
- Zhongxing Telecommunications Equipment (ZTE) 124

