

Index

- Abu Dhabi, 103
- Africa *see* Middle East and North Africa (MENA); Sub-Saharan Africa
- aggregate demand, domestic and imported equipment, 14
- air forces, 12, 76–8
 - Iranian capabilities, 85–6, 89
- Al-Saud family, 102
- al-Yamamah arms deal, 18, 55
- allocative and productive efficiency, 15–16
- ammunition production, 84
- Anglo-Persian Oil Company (APOC), 102
- Arabian American Oil Company (Aramco), 102–3
- arbitration, international, 150–52
- arms imports *see* military imports
- arms production *see* arms trade;
 - domestic arms production;
 - military imports
- arms trade:
 - allocative and productive efficiency, 15–16
 - corruption and, 16–18
 - effect on labor market, 12
 - Russia to Iran, 87
 - top ten defense prime contractors, 17
 - UK revenues and deals, 18, 54, 56
 - US revenues
 - (1999–2006), 9, 54
 - government officers and, 17
 - from transfer agreements, 105–7
 - from GCC (2007), 94
 - Western suppliers, 105–7, 150
 - see also* domestic arms production; military imports (to Persian Gulf)
- arms transfer agreements, 105–7
- Asia and Oceania, 27
- Association of South East Asian Nations (ASEAN), 8
- AT Kearny survey, 133
- BAE Systems, 17, 18
- Bahrain, 26, 30
 - arms imports, 57–62, 106
 - domestic arms production, 82–3
 - military expenditures, comparisons (1988–2005), 34–7
 - GDP and incomes per capita, 40–42
 - population growth and, 38–9
 - military personnel, 72, 73, 74–5, 81
- Bandar bin Sultan, Prince of Saudi Arabia, 18
- Boeing, 17
- Brazil, 80
- British Petroleum (BP), 102
- Bush administration, 17, 104
- Business Monitor International (BMI), 89–90
- capital flight, 15
- Caribbean Americas *see* Latin America and Caribbean
- Central Americas, 27
- Central Asia *see* Europe and Central Asia
- Cheney, Dick, 17
- Chevron, 102
- China, 70, 87, 104, 105, 106
- Chowdhury, Abdur R., 5, 6
- civilian economy:
 - conflict, regional and foreign-led, cost to, 118–20
 - effect of military expenditures on, 1–2
 - consumption and inflation, 14–15
 - employment, 12–13
 - investment, 10–11, 16

- political security, 18–19
- positive spillover, 9, 11
- fiscal management, 122–30
 - balance of payments, 130–32
- foreign direct investment (FDI), 133–42
- oil and gas reserves, 98–104
 - consequences of militarization, 122–30
- ratio of arms imports to goods and services, 64–5
- see also* GDP; oil revenues; population
- Cold War era, 19
- Commission to Assess Ballistic Missile Threats to the United States, 88
- conflict *see* Gulf Wars; regional conflict
- Congressional Research Service (CRS) reports, 53–4, 105
- corruption, 16–18

- debt, 13–14
- demilitarization, 149–54
- developing nations:
 - arms recipients (1999–2006), 70
 - foreign direct investment (FDI) and, 134, 137
- domestic arms production:
 - in relation to exports, 82–4, 89–90
- Iranian, 40, 82–90
 - assisting countries, 87–8
 - capabilities, 85–7
 - countries which assist, 87–8
 - customer countries, 89–90
 - missile program, 88
 - quality and technical advancement, 89
 - reasons for, 93–4
- Qatar's, 92
- Saudi Arabian, 90, 93
- UAE's, 91–2, 94
- see also* arms trade; military expenditures
- Dunne, J. and Mohammed, Nadir A.L., 8
- Dunne, P. and Perlo-Freeman, S., 6–7

- East Asia and Pacific region:
 - military expenditures, comparisons, 44–6, 48–51
 - arms imports, 65–8
 - military personnel, 79–80
 - net inflows of investment, 135
- economic growth and development *see* civilian economy; GDP; oil revenues; population
- Egypt, 69, 70
 - foreign direct investment (FDI), 135, 136, 138, 140–41, 143, 145
- Europe and Central Asia:
 - arms exports, 106–107
 - arms imports, annual averages (1988–2005), 63–8
 - countries comprising, 52
 - military expenditures, comparisons, 27, 44–7, 49–51
 - military personnel, 79–80
- European Monetary Union, 135
- expenditures *see* military expenditures

- F-22 project, 12
- foreign aid, 18
- foreign direct investment (FDI), 133–42
- France, 105

- gas reserves, 98–101, 103–4
- GDP (gross domestic product):
 - central governments' finances as percentage of, 128–9
 - in relation to arms imports, 60, 65–6
 - in relation to growth rates, 2–3, 142–5
 - in relation to labor market, 13
 - in relation to military expenditures, 40–42, 46–7, 50
 - see also* civilian economy
- General Dynamics, 17
- Germany, 105
- goods and services, total imports to Persian Gulf countries, 64–5
- Gorbachev, Mikhail, 153–4
- Granger causality tests, 5–6
- Greece, 69
- gross domestic product *see* GDP (gross domestic product)

- Gulf Cooperation Council (GCC), 94, 103–4, 121–2
- Gulf Wars, 103–4
- Halliburton, 17
- Harris, G., 8
- helicopters, 85–6
- Hezbollah, 94
- hyperinflation economies, 14–15
- imports *see* military imports (to Persian Gulf); military imports (non-Persian Gulf)
- India, 69, 70, 80
- indigenous military sectors *see* domestic arms production
- inflation rates, 13–14
- infrastructural projects, 9, 11
- intercontinental ballistic missile (ICBM), 88
- international arbitration, 150–52
- International Atomic Energy Agency (IAEA), 104
- investment, 10–11
- allocative inefficiencies and, 16
- foreign direct investment (FDI), 133–42
- hyperinflation and, 15
- Iran, 30
- arms exports, 84, 89–90, 94
- arms imports, 56–62, 69, 106
- air and navy, 78
- domestic arms production, 40, 82–90
- capabilities, 85–7
- countries which assist, 87–8
- customer countries, 89–90
- missile program, 88
- quality and technical advancement, 89
- reasons for, 93–4
- economic performance (1975–2002), 143, 144, 145
- foreign direct investment (FDI), 136, 138–43
- Iraqi invasion of, 93, 118–19
- military expenditures, comparisons (1988–2005), 34–7
- GDP and incomes per capita, 40–42, 43
- population growth and, 38–9
- military structure, 41–2
- personnel, 71–5, 76, 81
- oil and gas wealth, 100
- fiscal deficits and, 125, 127–8, 130–32
- foreign interference, 100, 102, 104
- levels of debt, 129
- military expenditures and, 118
- political structure, 107
- socio-political challenges to, 25, 26, 28
- sanctions, 93–4
- Iran–Iraq war, 93, 118–19
- Iraq, 28
- arms imports, 62, 69, 106
- economic performance (1975–2002), 143, 144, 145
- foreign direct investment (FDI), 136, 138, 140–42
- invasion of Iran, 93, 118–19
- invasion of Kuwait, 34–5, 100, 119
- US response, 103, 119–20
- oil and gas wealth, 100
- fiscal deficits, 127, 130–32
- in relation to military action, 118–19
- levels of debt, 129
- US interests, 104
- political structure, 107
- US–Coalition invasion (2003), 104, 121
- Iraq National Oil Company, 102
- Iraq War, 104
- Islamic teachings, 1–2, 69–70, 108–13
- impact of, on economic issues, 123–4
- Israel, 70, 150
- Italy, 105
- Japan, 69
- Jordan, 136, 138, 140–41, 143, 145
- Kim, J. and Correa, H., 7
- Kusi, Newman, 5, 6
- Kuwait, 26, 30, 100, 122
- arms imports, 57–62, 106
- arms production, 82–3
- economic performance (1975–2002), 143, 145
- foreign direct investment (FDI), 136, 138, 140–42

- Iraq's invasion of, 34–5, 100, 119–20
 - relationship with US, 103–4
- military expenditures, comparisons (1988–2005), 34–7
 - GDP and incomes per capita, 40–42, 43
 - population growth and, 38–9
- military personnel, 72, 73, 74–5
- oil and gas wealth, 100, 103
 - fiscal deficits and, 125–8, 130–32
 - levels of debt, 129
- political structure, 107
- Kuwait National Petroleum Company (KNPC), 103
- Kuwait Oil Company (KOC), 103
- L-3 Communications, 17
- labor market:
 - military expenditures and, 12–13
 - within arms production, 82–3
 - ratio of military personnel to civilian labor, 75–6
- land (heavy) equipment, 85
- Latin America and Caribbean:
 - arms imports, annual averages (1988–2005), 63–8
 - countries comprising, 52
 - investment, 135
 - military expenditures, comparisons, 27, 44–6, 48–51
 - military personnel, 79–80, 80
- Lebanon, 94
- Libya, 69
- Little, David J.K., 108–9
- Lockheed, Martin, 17
- Looney, R., 7
- Malaysia, 70
- Malek Ashtar University of Technology, Tehran, 89
- Middle East and North Africa (MENA):
 - arms imports, annual averages (1988–2005), 63–7
 - and population, 67–8
 - countries comprising, 52
 - investment, 135
 - military expenditures, global comparisons, 25, 27, 44–6, 47–51
 - military personnel, 79–80
 - overall average budget deficit, 128
- Middle East oil exporters (MEOE) *see* individual countries' names
- military expenditures (MILEX):
 - definitions of, 30–33
 - economic effects of, 9–20
 - allocative and productive efficiency, 15–16
 - budget, debt, money and finance, 13–14
 - consumption, aggregate demand, aggregate supply, 14–15
 - corruption, 16–18
 - effect on investment, 10–11
 - externality and spillover, 11
 - labor market, 12–13
 - security, conflict and war, 18–19
 - in certain Persian Gulf countries
 - depictors of (1988–2005), 33–4
 - comparisons by country, 35–7
 - GDP and incomes per capita, 40–42
 - population growth and, 38–9
 - effect of increase, 2, 49–51
 - global perspective, 43, 47–9
 - arms imports and, 65, 66
 - GDP, 46–7, 50
 - military personnel, 47, 50–51
 - population and, 44–6
 - socio-political issues and, 1–2, 25–30
 - world figures (1988–2006), 19
 - and regional, 27
 - annual average per capita (to 2005), 46
 - average annual growth rates (to 2005), 45
 - world figures (2007), 25
- see also* domestic arms production; militarization of Persian Gulf; military imports (to Persian Gulf)
- military imports (to Persian Gulf), 54–62
 - assessment of data, 54–6
 - average annual growth rate, 56, 59
 - as percentage of goods and services imports, 60
 - average annual shares of, 58

- global perspectives, 63–4
 - and total imports of goods and services, 64–5
 - annual averages per capita, 67
 - military expenditures and, 65, 66
- in relation to oil revenues, 56, 57
 - see also* arms trade; military expenditures
- militarization of Persian Gulf:
 - consequences of
 - budgetary, 122–32
 - on economic performance, 142–4
 - foreign direct investment, 133–42
 - role of regional conflicts, 118–22
 - and demilitarization, 149–54
 - motivation for, 5–9
 - foreign interference, 100–105
 - interests of suppliers, 105–7
 - oil and gas reserves, 98–100
 - politics, 107–108
 - regional conflict, 108, 109
 - see also* military expenditures
- military imports (non-Persian Gulf), 69
- military personnel, 47, 50–51
 - in Persian Gulf countries, 71–81
 - aggregate numbers, 72–3
 - growth rate, global perspectives, 78–81
 - in relation to labour force, 75–6
 - in relation to populations, 73–5
 - naval and air forces, 76–8
- Miqani, Ahmad Commander, 89
- missiles, 86–8, 89
- Mohammad-Najjar, General Mostafa, 84
- Morocco, 136, 138, 140–41, 143, 145
- Muslim fundamentalists/extremists, 29, 111
- NATO (North Atlantic Treaty Organization), 8, 84
- navy and marine forces, 76–8
 - Iranian capabilities, 85
- net national product (NNP), 123
- non-government organizations (NGOs), 151–3
- Non-PG MENA
 - arms imports, annual averages (1988–2005), 63–8
 - military personnel, 79–80
- North Africa *see* Middle East and North Africa
- North America
 - arms imports, annual averages (1988–2005), 63–8
 - investments, 135
 - military expenditures, comparisons, 27, 44–51
 - military personnel, 79–80
 - see also* United States of America
- North Atlantic Treaty Organization
 - see* NATO (North Atlantic Treaty Organization)
- North Korea, 88
- Northrop Grumman, 17
- oil companies, 102–3
- oil revenues:
 - foreign interests, companies and consortium, 100–104
 - in relation to military expenditures, 2–3, 35
 - in relation to military imports, 56, 57
- militarization and, 98–100
 - and population, 101
 - economic consequences, 122–30
 - historical reasons for, 101–3
 - recent foreign interventions, 103–4
 - political importance of, 25–6
 - see also* civilian economy
- Operation Desert Shield, 103, 119
- Pakistan, 70, 80
- Palestinian–Israeli dispute, 150
- Peel, D. and Byers, J.D., 8
- Persian Gulf oil exporters (PGOEs),
 - government finances, 124–6
- Persian Gulf waters, 26, 78
- political dynamics:
 - Islamic teachings and, 108–13
 - oil reserves and, 25–6
 - fiscal management and, 122–30
 - shiekhdoms, 102–3
 - arms trade and, 107–8
 - socio-political issues, 25–30
 - military expenditures and, 18–19

- population:
 and arms imports, 67–8
 and military expenditures, 38–9,
 44–6
 and military personnel, 73–5, 81
 annual average ratios (1990–2005),
 74
 oil and gas reserves and, 101
see also civilian economy
 PPP (Purchasing Power Parity), 25, 28
 Putin, Vladimir, 87
- Qatar, 61–2, 100
 domestic arms production, 92
 economic performance (1975–2002),
 143, 145
 foreign direct investment, 134, 135,
 136, 138, 140–42
 oil and gas wealth, 100
 fiscal deficits and, 125–8, 130–32
 levels of debt, 128–9
 political structure, 107–8
- R&D (Research and Development),
 15, 78
 Iranian, 88–9, 93
 Rattinger, H., 8
 Raytheon, 17
 Reagan, Ronald, 149
- regional conflict:
 demilitarization and arbitration,
 149–52
 in relation to military expenditures,
 18–19, 108, 109, 118–22
 Iran–Iraq war, 93
 Iraqi invasion of Kuwait, 34–5, 100,
 103
 Palestinian–Israeli dispute, 150
 Whahhabi–Shiite tensions, 29
- religious issues, 28–30
 teachings of Islam, 1–2, 69–70,
 108–13
 on politico-economic issues, 123–4
- Russia, 87, 88, 89
 arms transfer agreements (1999–
 2006), 105–6
- S-200 surface-to-air missile system, 89
- Sachedina, Abdulaziz A., 108–13
- Saeqeh aircraft, 89
- Sample, S., 18
- satellite-guided missiles, 78
- Al-Saud, Abdul-Aziz, 102
- Saudi Arabia, 30
 arms imports
 (1988–2005), 56–62, 69
 (1999–2006), 69, 106
 air defenses (2007), 78
 al-Yamanah deal, 18, 55
 from the US, 122
 domestic arms production, 90, 94
 and exports, 83
 economic performance (1975–2002),
 143, 144, 145
 foreign direct investment, 134, 135,
 136, 138, 140–42
 military expenditures, comparisons
 (1988–2005), 34–7, 43
 GDP and incomes per capita,
 40–42
 population growth and, 38–9
 military personnel, 72, 73, 74–5
 and civilian income comparisons,
 13
 oil and gas wealth, 100
 fiscal deficits and, 126–8, 130–32
 levels of debt, 128–9
 political structure, 28, 107–8
- Science Applications International
 Corp., 17
- security, conflict and war, 18–19
- Shahab-3 missile project, 88
- Shahid Hemmat Missile Industries
 Complex, Tehran, 88
- shiekdoms, 26, 102–3, 107–8
- small (man-portable) arms, 85
- Smith, R., 5–6
- Somalia, 90, 94
- South Americas, 27
- South Asia:
 arms imports, annual averages
 (1988–2005), 63–8
 countries comprising, 52
 investment, 135
 military expenditures, annual
 averages (1988–2005), 44–51
 military personnel, 79–80
- South Korea, 70
- Stockholder International Peace
 Research Institute (SIPRI), 106

- Strait of Hormuz, 26
- Sub-Saharan Africa:
 arms imports, annual averages (1988–2005), 63–8
 countries comprising, 52
 military expenditures, annual averages (1988–2005), 44–6, 48–51
 and economic factors, 8
 military personnel, 79–80
- Sudan, 94
- supply of arms *see* arms trade
- Syria, 136, 138, 140–41, 143, 145
- Taiwan, 69, 70
- Tajikistan, 94
- tax revenues, 14–15
- Tunisia, 135, 136, 138, 140–41, 143, 145
- Turkey, 69
- Turkish Petroleum Company (TPC), 102
- UAE *see* United Arab Emirates (UAE)
- Ukraine, 88
- United Arab Emirates (UAE), 30
 arms imports, 56–62, 70, 78, 106
 domestic arms production, 91–2, 94
 and exports, 83
 economic performance (1975–2002), 143, 144, 145
 foreign direct investment, 134, 135, 136, 138, 140–42
 formation of, 103
 military expenditures, comparisons (1988–2005), 34–7
 GDP and incomes per capita, 40–42
 population growth and, 38–9
 military personnel, 72, 73–4, 75, 81
 oil and gas wealth, 26, 100
 fiscal deficits and, 126–8, 130–32
 levels of debt, 129
 political structure, 107–108
- United Kingdom of Great Britain:
 arms sales and deals, 18, 54, 56
 oil companies and consortium, 102–3
 overthrow of Iranian government (1953), 102
- United Nations, 90, 151
 Conference on Trade and Development (UNCTAD), 134
 Security Council (Resolution 1747), 84
- United States of America:
 Congressional Research Service (CRS) report, 52–3
 Gulf Wars (1990–91), 103–4, 119–20 (2003), 104, 121
 international responsibility, 153–4
 Iranian ballistic missile capabilities and, 87–8
 military expenditures, 12, 25
 military industry revenues, 9, 54, 94
 arms transfer agreements (1999–2006), 105–7
 government officers' links with, 17
 oil companies and consortium, 102–3
 overthrow of Iranian government (1953), 102
 relationship with GCC, 121–2
see also North America
- United Technologies, 17
- wars *see* Gulf Wars; regional conflict
- Warsaw Pact states, 8
- Weede, E., 7
- World Investment Report* (UNCTAD), 134
- al-Yamamah arms deal, 18, 55

