

Index

- Abdominal area, 130, 188
- Accountability, 97–8
- Accountability, Principle of, 97–8, 157, 158
- Acoustic hailing device, 171
- Acoustic weapons, 10–12
 - communication devices, 168
 - deterrents, 169–74
 - legal concerns, 169–74
 - recommendations, 174–5
- Acquiescence, 46
- Additional Protocol I to the Geneva
 - Conventions of, 1949, 74
- Additional Protocol II to the Geneva
 - Conventions of, 1949, 80, 139
- African Charter on Human and Peoples'
 - Rights,
 - Article 16, 148
 - Article 4, 93
- African Commission on Human and Peoples'
 - Rights,
 - General Comment No. 3 on Article, 4, 93, 101
 - Guidelines for the Policing of Assemblies by Law Enforcement Officials in Africa of, 2017, 92
 - Principles and Guidelines on Human and Peoples' Rights while Countering Terrorism in Africa of, 2015, 92, 112
 - Shumba vs. Zimbabwe, 103
- Age, 127, 181
- Alcohol, abuse of, 157
- American Convention on Human Rights,
 - Article 15, 141
 - Article 4, 107
 - Article 5, 151
 - Article 7, 152
- Ammunition, 10
- Ammunition, less-lethal, 156
- Amnesty International, 49, 95, 168, 171, 184, 187
- Anti-terror operations, 117
- Anxiety, 10
- Argentina, 60
- Armed conflict, 10, 34, 35, 41–2
- Armed forces, 55, 61, 79–80, 186
- Arms Trade Treaty, 46–50, 159
- Arrest, arbitrary, 152
- Asphyxia, 101
- Assistance, medical, 159
- Attack, 54, 59
- Australia, 33, 42, 72, 184
 - Defence Force Manual of, 1994, 42
- Basic Principles for the Treatment of Prisoners
 - of, 1990, 98
- Basic Principles on the Use of Force and Firearms by Law Enforcement Officials
 - of, 1990, 62, 91
 - Article 12, 141
 - Article 2, 96
 - Article 3, 137
 - Article 5, 96
- Batons, 101, *see also* Truncheons
 - Arms Trade Treaty and, 47
 - legal concerns, 188–9
 - occupation, 86
 - precaution, principle of, 97
 - recommendations, 192–3
 - torture, cruel, inhuman or degrading treatment or punishment, prohibition of, 122, 130
 - use of force continuum, 154
- Battle tanks, 47

- Battlefield, 61, 78, 141
- Beanbags, 23
- Belgium, 88
- Biochemical weapons, 17, 175–81
 - legal concerns, 175–9
 - recommendations, 179–81
- Biological agents *see* Biological weapons
- Biological agents, other, 36
- Biological weapons, 12–13, 87, *see also*
 - Biochemical weapons
- Bioregulators, 12, 37
- Blindness,
 - permanent, 31, 197–8
 - temporary, 196
- Blunt trauma projectiles, 23, 189–92
 - legal concerns, 189–91
 - recommendations, 192–3
- Body parts, sensitive, 126, 173, 188, 192–3
- Booby-traps, 30
- Brain damage, 16
- Brazil, 46, 101
- Bulgaria, 153
- Burning sensation, 14
- Bystanders, 85, 172, 195

- Cambodia, 18
- Cameroon, Instructor Manual of, 2006, 42
- Cancer, 164
- Capture rather than kill *see* Least harmful means test
- Cardiac arrest, 183
- Cartagena Declaration, 38
- Cartridges, 179
- Casey-Maslen, Stuart, 152
- Chechnya, 102
- Chemical Weapons Convention, 68
 - activities, not prohibited, 43–6
 - activities, prohibited, 41–2
- Chemical weapons, 13–17, 87, *see also*
 - Biochemical weapons
- Chilling-effect, 175
- China, 18, 46
- Civilian objects, 46, 50, 72, 74, 185
- Civilian population, 54, 83, 151, 185–7
- Civilians directly participating in hostilities, 63, 140
- Civilians, 50
- Clubs, 48
- Code of Conduct for Law Enforcement
 - Officials of 1979, 91
 - Article 1, 93
 - Article 3, 95
- Cold War, 38
- Colombia, 62
- Combat scenarios, 194, 197, 199
- Combatants, 60
- Combatants' privilege, 62
- Combustion-driven modifiers, 14
- Committee against Torture, 6–25, 183–5
 - Dragan Dimitrijevic vs. Serbia and Montenegro, 124
 - Report on Canada of, 2001, 137
 - Report on Latvia of, 2008, 135
 - Report on Mexico of, 2003, 124
 - Report on Portugal of, 2007, 126
 - Report on the United Kingdom of, 1999, 125
 - Report on the United States of America of, 2006, 125
- Committee for the Prevention of Torture, 149
 - General Report on the Activities of the Committee for the Prevention of Torture of, 2010, 182
 - Report to the Government of Bosnia and Herzegovina on the Visit to Bosnia and Herzegovina of, 2009, 180
- Compliance, 96, 169, 188
- Congo, 126
- Connolly, Sean, 152
- Contact-mode, 154, 181
- Control,
 - effective, 82
 - territorial, 55
- Conventional Weapons Convention, 28–31, 64, 71
- Côte d'Ivoire, 47
- Crimes against humanity, 50
- Crowd Modular Munition, 193
- Crowd, dispersal, 145, 191
- CS spray, *see* Riot Control Agents
- Custodial centers, 17–22, 98–9
- Customary law, 138, 176, 196, 200
 - Basic Principles on the Use of Force and Firearms by Law Enforcement Officials of, 1990, 62
 - biological weapons, prohibition of, 34
 - chemical weapons, prohibition of, 53
 - effects-based approach, 65
 - enforcement, 97
 - General Principles on the Use of Force by Law Enforcement Officials, 92
 - hors de combat, 63
 - indiscriminate attacks, prohibition of, 71

- Customary law (cont.)
 - superfluous injury or unnecessary suffering, prohibition of, 64
 - use of force continuum, 81
- Cyprus, 105
- Czech Republic, 46
- Darts, 184
- Davison, Neil, 24, 54
- Dazzling laser weapons, 31, 198
- Death, 19–23, 101, 106–7, 133, 134
- Declaration of St. Petersburg, 64
- Denmark, 46
- Design-based approach, 31, 65
- Detainees, 139
 - non-international armed conflict, in, 140
- Dinstein, Yoram, 52
- Directed energy weapons, 185
- Disorientation, 10, 15
- Distance, minimum, 180
- Distress, psychological, 173
- Dizziness, 25
- Draft Geneva Guidelines on Less-Lethal Weapons in Law Enforcement, 180
- Drugs, abuse of, 157
- Drugs, consumption of, 181
- Dual-use objects, 46, 168, 186
- Dubrovka theater, 102
- Eardrums, 10, 171, 172
- Effects, indiscriminate, 28, 172, 193
- Effects, physical, disabling, 40
- Effects-based approach, 65
- Eighth Biological and Toxin Weapons Convention Review Conference of 2016, 32
- Electrical belts, 182, 185
- Electrical devices, 20, 181
- Electrical weapons, 17–19, 181–5
 - legal concerns, 181–3
 - recommendations, 183–5
- Electricity supply, 186
- Electromagnetic waves, 186–7
- Electromagnetic weapons, 19–22, 185–8
- Electroshock weapons, 19, 125–6, 129, 130, 135–6, 181–2
- Embrittlement, 11
- Enemy soldiers, 76
- Escalation, 85, 97, 107, 112, 159, 175, 180
 - armed conflict of, 75
 - armed conflict of, 41, 70
- armed conflict, 81
- prison riots, 79
- riots of, 85–6
- European Convention on Human Rights,
 - Article 11, 141
 - Article 2, 190
 - Article 3, 106, 190
 - Article 5, 152
- European Court of Human Rights,
 - Abdullah Yaşa and Others vs. Turkey, 127, 134, 176
 - Ali Günes vs. Turkey, 130
 - Andronicou and Constantinou vs. Cyprus, 114
 - Antipenkov vs. Russia, 131
 - Anzhelo Georgiev and Others vs. Bulgaria, 129, 135–6, 153, 183–5
 - Ataykaya and Others vs. Turkey, 103, 109
 - Borbála Kiss vs. Hungary, 129
 - Cesaro vs. Italy, 189
 - Çilöğlu and Others vs. Turkey, 128, 144
 - Ciorcan and Others vs. Romania, 190
 - Dedovskiy and Others vs. Russia, 132
 - Douet vs. France, 188
 - Finogenov vs. Russia, 17, 102, 108, 115
 - Gramada vs. Ramouni, 136
 - Güleç vs. Turkey, 113
 - Isaak vs. Turkey, 105
 - Isayeva vs. Russia, 63
 - İzci vs. Turkey, 130, 135, 138, 144, 176
 - Kucheruk vs. Ukraine, 137
 - McCann and Others vs. The United Kingdom, 111
 - Nachova and Others vs. Bulgaria, 105
 - Oya Ataman vs. Turkey, 143
 - Perisan and Others vs. Turkey, 100, 101, 106, 119
 - Petruş Iacob vs. Romania, 128, 137
 - Stewart vs. The United Kingdom, 190
 - Tali vs. Estonia, 132, 137, 177
 - Yüksel Erdogan and Others vs. Turkey, 114
- Exposure, 14–20, 39–40
 - acoustic weapons to, 171
 - electromagnetic weapons to, 185
 - hors de combat*, 77
 - kinetic energy weapons to, 192
 - Moscow theater siege, 159
 - optical weapons to, 197
 - torture, cruel, inhuman or degrading treatment, prohibition of, 127, 131

- Fatality rates, 67
- Fatality, 85, 106, 188–90
- Fatigue, 11
- Fentanyl, 15–17, 40, 44, 67
- Fidler, David P., 45
- Fighters, 62
- Firearms Protocol of, 2001, 48
- Firearms, 48
- First United Nations Crime Congress, 98
- Food supply, 186
- Foreseeability, 49, 148, 190
- France, 13, 33, 73
- Gas, asphyxiating, poisonous or other, 86–9
- Gelatin blocks, 10
- General Assembly,
 - Res. 45/11 of 1990, Basic Principles for the Treatment of Prisoners, 98
 - Res. 45/111 of 2016, United Nations Standard Minimum Rules for the Treatment of Prisoners (Nelson Mandela Rules), 99
- General Principles on the Use of Force by Law Enforcement Officials, 91–9
- Geneva Convention III, 82, 121
- Geneva Conventions of, 1949, 46
- Geneva Gas Protocol of 1925, 88
- Genitals, 127, 133, 173, 192
- Genocide, 50
- Germany, 13, 33
 - Military Manual of 2013, 69
- Goodman, Ryan, 59, 61
- Goose, Stephen, 196
- Graphite soft-bombs, 186
- Hague Declaration concerning Asphyxiating Cases, 64
- Hague Regulations of 1899 and 1907, 64, 80, 84
- Hallucination, 15
- Handcuffs, 151, 153
- Health, 15–17, 148, 187, 194
- Hearing loss, 171, 172, 173
- Heating sensations, 20, 185
- Heintschel von Heinegg, Wolff, 54
- Heyns, Christof, 96
- Honduras, 101
- Hors de combat*, 57–61, 76–8, 120
- Hospital mortality, 67
- Hostilities paradigm, 84
- Human Rights Committee,
 - Lucía Arzuaga Gilboa vs. Uruguay, 127
 - Suarez Guerrero vs. Colombia (Guerrero Case), 62
- Human rights law,
 - absence of derogation in, 99, 121
 - derogation, 142, 147, 150–2
- Human Rights Watch, 196
- Human rights,
 - extraterritorial applicability of, 3
- Humanity, 81
- Humiliation, 123, 188
- ICCPR *see* International Covenant on Civil and Political Rights
- ICC Statute, 71, 86–8
- ICESCR *see* International Covenant on Economic, Social and Cultural Rights
- ICRC, Interpretative Guidance on the Notion of Direct Participation in Hostilities, 56, 83
- Impact, kinetic, 122, 193
- Incapacitants, 15–16, 32–5, 69–76
 - human rights, other, 149–50
 - indiscriminate attacks, prohibition of, 75
 - legal concerns, 177–9
 - recommendations, 179–81
- Incapacitating agents, *see* Incapacitants
- India, 22, 46
- Indiscriminate attacks, Prohibition of, 54, 71–6, 170, 177
- Infrared waves, 21
- Injuries, severe, 13, 85, 125, 127, 130, 134, 154, 172, 183–4, 188–92
- Inter-American Commission on Human Rights,
 - Annual Report on the Use of Force of 2015, 111
 - Juan Carlos Abella vs. Argentina (Tablada Case), 62
 - Report on Citizen Security and Human Rights of 2009, 92, 110
 - Report on Honduras of 2009, 101
 - Report on the Use of Force of 2015, 104
 - X and Y vs. Argentina, 151
- Inter-American Court of Human Rights,
 - Bámaca Velásquez vs. Guatemala, 133
 - Cantoral Benavides vs. Peru, 133
 - Hermanos Landaeta Mejías and Others vs. Venezuela, 116
 - Landaeta Mejías Brothers et al. vs. Venezuela, 113, 118
 - Maritza Urrutia vs. Guatemala, 134, 172

- Inter-American Court (cont.)
 - Nadege Dorzema and Others vs. Dominican Republic, 153
- Internal organs, 23
- International Armed Conflict, 140
- International Committee of the Red Cross, 44, 66, 68, 78, 82, 83, 121, 155
- International Court of Justice,
 - Case Concerning Military and Paramilitary Activities in and against Nicaragua, 26
 - Legality of the Threat or Use of Nuclear Weapons, Advisory Opinion, 120
 - Written Statement submitted to the ICJ in the Nuclear Weapons Case, 87
- International Covenant on Civil and Political Rights,
 - Article 21, 141
 - Article 9, 152
 - jurisdiction issues and, 140
- International Covenant on Economic, Social and Cultural Rights,
 - Article 12, 148
- International Criminal Court,
 - The Prosecutor vs. Germain Katanga, 58
- International Criminal Law,
 - United Kingdom, 87
 - United States of America, 87
- International Criminal Tribunal for the Former Yugoslavia,
 - Prosecutor vs. Milan Martić (Martić Case), 72
- International Narcotics Control Board, 44
- International Tracing Instrument, 48
- Interrogation techniques, 56, 172
- Iran, 46
- Iraq, 83, 186
- Irritants, 13–15, 67, 124, 154
- Irritation, 13–16, 19, 39–40, 79, 129–31
- Israel, 46, 55
- Joint Non-Lethal Weapons Program, 7
- Jurisdiction,
 - extraterritorial, 93
 - right to health, 148
- Kampala Amendments, 88
- Kinetic energy weapons, 22–4
 - legal concerns, 188–92
 - recommendations, 192–3
- Knives, 48
- Knowledge, medical, 78
- Lachrymation, 15
- Landmines, antipersonnel, 29
- Large-caliber artillery systems, 47
- Laser rangefinder, 194–5
- Law enforcement paradigm, 79
- Law enforcement, 43, 62, 84
- Law, domestic, 56
- Least harmful means test, 54–63, 153
- Less-lethal weapons,
 - anti-matériel, 8, 11, 14, 21, 164, 165–7
 - anti-personnel, 8, 14, 21
 - definition of, 9–10, 156
 - disabling weapons, 9
 - less-than-lethal weapons, 9
 - monitoring, 159
 - non-lethal weapons, 8
 - pre-lethal weapons, 9
 - right to life, lethal effects, 100
 - soft-kill weapons, 9
 - sub-lethal weapons, 9
 - worse-than-lethal weapons, 9
- Liberty, deprivation of, 184
- Lieber Code, 58
- Light Detection and Ranging Device, 24
- Light weapons, 47–9
- Lightweight arresting device net, 22
- Liquids, 14
- Liquids, analogous, 87
- Living instrument approach, 173
- Long Range Acoustic Device, 75–6, 175
- Machetes, 48
- Malodorants, 16
- Means,
 - alternative, 66
 - least harmful, 91
 - less harmful, 85
 - nonviolent, 94–5, 112, 153, 195
- Measures, less extreme, 112
- Melzer, Nils, 58
- Mendoza Agreement, 38
- Mens rea, 172
- Mexico, 49
- Microbes, 36
- Microwave weapons, 20–1, 185–7
- Military advantage, 65–6, 69–71, 74–6, 174–6
- Military operations other than war, 35
- Military operations, 185
- Millimeter wave weapons, 22, 187
- Minimum guarantees, 140

- Minnesota Protocol on the Investigation of Potentially Unlawful Death of 2016, 158
 Missiles, 1, 47, 76
 Myocardial infarction, 183
- NATO, 8, 131
 summit of 2004, 131
 Nausea, 10, 15–16, 128
 Necessity, Principle of, 94–5, 195
 Neck-hold, 192
 Neil, Davison, 16
 Netherlands, 73
 Military Manual of the Netherlands, 42
 Nexus, belligerent, 42, 84
 Nicaragua, 60
 Noise, 75, 134, 171–3
 Non-discrimination, Principle of, 156
 Non-Governmental Organisations, 21
 Non-International Armed Conflict, 120, 139
 Non-laser lights, 194
 Non-weapon lasers, 195
 Northern Ireland, 23, 100, 172, 190
 Nowak, Manfred, 126
- Objects, disabling, 14
 OC spray, 70
 Occupation, 10, 82–6
 law enforcement, 84
 OHCHR Manual on Human Rights Training for Law Enforcement Officials of 2017, 180
 Operation Desert Storm, 83
 Optical weapons, 6–25
 legal concerns, 196–8
 recommendations, 198–9
 Ordre public, 145
 Ottawa Convention, 30, 64
 Oxford Manual, 64
- Palestine, 83
 Panic, 188
 Paralysis, 8, 19, 79, 183–4
 Peacekeeping operations, 42
 People zipper, 186
 People,
 disabled, 8, 77, 193
 elderly, 13, 193
 hiding, 193
 Pepper spray, 35, 97, 125, 128, 129, 132, 137,
 142–3, 154, 168, 175–6, 180
 case law, 129, 146
 legal concerns, 182
- Persistent objector, 92
 Peru, 116
 Physical integrity, 151
 Pictet, Jean, 56
 Piperdines, 17
 PKK (Kurdistan Workers Party/Partiya Karkerên Kurdistan), 103, 127
 Places, entrenched, 180
 PLAN principles, 91
 Plants, 36
 Plastic bullets, 23, 67
 Poison, 73, 86
 Portable vehicle arresting barriers, 22
 Potentially lethal weapons, 117, 128, 154, 190
 Power grids, 185–7
 Power plants, 20, 185
 Precaution, Principle of, 96–7, 197–9
 Precautionary principle. *see* Precaution, Principle of
 Predictability, 172, 174
 Pregnancy, 13, 193
 Prison riot, 42, 106
 case law, 100
 Prisoners of War, 120–1, 139–40, 201
 Private Military Companies, 140, 157
 Properties, toxic, 87
 Proportionality, Principle of, 82, 95–6, 193,
 195–7
 Protests, 84, 145, 175, 180
 Protocol on Blinding Laser Weapons, 196
 Protocol on Explosive Remnants of War, 31
 Protocol on Incendiary Weapons, 31
 Protocol on Mines and Booby Traps, 30
 Protocol on Non-Detectable Fragments, 29
 PSNI Manual of Policy Procedure and Guidance on Conflict Management, 97
 PSNI Manual, 180
 Purpose, hostile, 35
 Purpose, medical, 39
- Radiofrequency weapons, 185
 Range, 39, 41, 46–7, 72, 76, 170–1, 174, 193
 Report of the Panel of Governmental Experts on Small Arms as of 1997, 48
 Report of the Panel of Governmental Experts on Small Arms of 1997, 48
 Report of the Panel of the Governmental Experts on Small Arms and Light Weapons, 49
 Resistance, 95, 116, 131, 136, 138, 152, 153, 181, 193
 Respiratory distress syndrome, acute, 23

- Respiratory problems, 16
- Responsible command, 80
- Restraint, 45, 96
- Restraint, electrified devices of, 164
- Retinal injury, 197
- Rifles, 48
- Right to freedom of assembly, 141–2
 - armed conflict, 147
 - assembly, peaceful, 142–5
 - legality, necessity, proportionality, principles of, 145–7
- Right to health, 148–50
- Right to life, 62, 80, 103, 104, 105, 109, 121, 182, 187
 - armed conflict, 119–21
 - legality, principle of, 108–10
 - life, deprivation of, 107
 - necessity, principle of, 110–15
 - precaution, principle of, 118–19
 - proportionality, principle of, 115–18
- Right to security of a person, 152
- Riot Control Agents, 14–15, 16, 23
 - Chemical Weapons Convention and, 39–40
 - human rights, other, 149–51
 - indiscriminate attacks, prohibition of, 75
 - legal concerns, 175–7
 - occupation, 84
 - recommendations, 179–81
- Romania, 73, 128, 191
- Rubber bullets, 22–3, 30, 47, 67, 76, 137, 168, 190–1, 193
 - case law, 100
 - equipped with, 113
- Rubber-coated metal bullets, 189
- Russia, 16–17, 40, 45–6, 73, 108, 111, 115, 117, 123, 131–2, 146, 153, 159, 178
- Russian Anti-Terrorism Act, 108
- Security Council,
 - Res. 1572 of 2004, 47
 - speech held by the US in 1987, 73
- Self-defense, 105
- Senegal, 60
- Severity, Level of, 74, 88, 124–34, 170, 171–2
- Shields, 113, 156, 185
- Single Convention on Narcotic Drugs, 44
- SIRUS Project, 68
- Slovenia, 60
- Small arms, 46–9
- Soft bombs, 185
- Soft law, 44, 98
- Sound pressure level, 11
- Sound, 10, 169–73
- South Africa, 18
- Spaces, confined, 138, 180, 184
- Spain, 60
- Special Rapporteur on the Rights to Freedom of Peaceful Assembly and of Association and the Special Rapporteur on Extrajudicial, Summary or Arbitrary Executions, 114
- Special Rapporteur on the Rights to Freedom of Peaceful Assembly and of Association, 113
- Spiked weapons, 164
- Stampedes, 188
- Standard Minimum Rules for the Treatment of Prisoners of 1955, 98
- Starvation, 186, 187
- Sticky foam, 15, 191–2
 - legal concerns, 191–2
 - recommendations, 192–3
- Stress, Level of, 10–11, 18, 182–3
- Stun-guns, 17–18, 182, 185
- Stun-mode, 19, 153, 184
- Superfluous injury or unnecessary suffering, Prohibition of, 61, 86, 140–1, 174–7, 187, 200
- Supreme Court of Israel,
 - Public Committee against Torture vs. Israel, 55
- Sweden, 60
- Switzerland, 73
- Target, human, 8, 194–5
- Taser, 126, 168
 - case law, 183
 - general principles on the use of force, 157
 - legal concerns, 181–3
 - necessity, principle of, 95
 - Prisoners of War, 79
 - recommendations, 183–5
 - torture, cruel, inhuman or degrading treatment or punishment, prohibition of, 124
 - use of force continuum, 153–4
- Tear gas grenades, 103, 109, 128, 154, 160, 176, 191
 - case law, 103, 127
 - recommendations, 179
- Tear gas, 13–17, 116, 168
 - case law, 116, 128

- equipped with, 113
- legal concerns, 176–7, 182
- occupation, 85
- Prisoners of War, 82
- recommendations, 179–81
- right to freedom of assembly, 143–4
- right to life, 101–3, 121
- torture, cruel, inhuman or degrading
 - treatment or punishment, prohibition of, 127–30, 134–6
 - use of force continuum, 154
- Thumbcuffs, 164
- Thumbscrews, 164
- Torture, 122
- Torture, cruel, inhuman or degrading
 - treatment or punishment, Prohibition of, 80, 181, 182, 187, 189, 198
 - armed conflict, 141
 - difference between torture, cruel, inhuman or degrading treatment, 122–3
 - legality, principle of, 135
 - necessity, principle of, 135–7
 - severity of pain, sliding scale, 134
- Toxic chemicals, 38
- Toxins, 36
- Training, 77–8, 97–8, 104, 118, 174, 181, 199
- Treatment, medical, 8, 40, 102, 129–30, 154, 159, 173
- Truncheons *see also* Batons
- Truncheons,
 - legal concerns, 188–9
 - occupation, 85–6
 - Prisoners of War, 82
 - recommendations, 192
 - right to life, 100–1, 106, 113, 121
 - tonfa-type, 189, 193
 - torture, cruel, inhuman or degrading
 - treatment or punishment, 132–4
 - use of force continuum, 153–4
- Tupac Amaru Revolutionary Movement, 109
- Turkey, 105
- Twist irons, 164
- UN Convention against the Illicit Traffic in Narcotic Drugs and Psychotropic Substances, 44
- UN Human Rights Guidance on Less-Lethal Weapons in Law Enforcement, 10
- UN Register of Conventional Arms, 47
- UN Register on Conventional Arms, 50
- UN Special Rapporteur on Extrajudicial, Summary or Arbitrary Executions, 96, 153
- UN Special Rapporteur on the rights to freedom of peaceful assembly and of association, 192
- UN Sub-Commission on Human Rights, 73
- UN buffer zone, 105
- United Kingdom, 18, 33, 46, 58, 100, 123, 127, 137, 190
- United Nations Convention against Torture, jurisdiction issues and, 140
- United Nations Office on Drugs and Crime, 179, 182, 192
- Resource Book on the Use of Force and Firearms by Law Enforcement Officials of 2017, 182
- United Nations Office of the High Commissioner for Human Rights, 155
- United States of America, 21, 33
- US Naval Handbook of 1995, 42
- Unlawful weapons, 162–5
- UN Secretary General Report on Respect for Human Rights in Armed Conflict, 59
- UN Special Rapporteur on Extrajudicial Killings, 119
- UN Special Rapporteur on the Right to Everyone to the Enjoyment of the Highest Attainable Standard of Physical and Mental Health, 149
- Uruguay, 126
- US Marine Corps, 186
- US National Research Council, 24
- Use of force continuum, 80, 95, 152–4, 181–2, 195
- Ventilation system, 16
- Vertigo, 10
- Vestibulocochlear organ, 10
- Vulnerability, 123, 176, 201
- Warfare, definition of, 41
- Warfare, distinguished from law enforcement, 41
- Warfare, humanization of, 165
- Warfare, Means and Methods of, 169, 175–6, 200
- Warships, 47

Water cannons, 23–4, 47, 192 equipped with, 113	World Health Organization, 85, 149
Water supply, 186	World War I, 14
WHO, Report on Health Aspects of the Use of Chemical and Biological Weapons, 149	World War II, 18
	X-rays, detection by, 30