

# Index

- Abramson, Bruce, 258
- AdSense, 45, 46, 77, 96
- ADSL, 51
- Advertising, 44–46, 59, 60, 77–80, 125, 126
- Aggregators, 82
- Agreement on Basic Telecommunications Services, 149
- Alcatel, 191
- Amazon, 25, 59, 68, 69, 71
- Annenberg Center Principles, 251, 252
- Antitrust actions, 22, 25, 30–35, 39
- Anycasting, 228, 229
- AOL, 38
- APEC, 154, 155, 245
- APIs, 24, 58, 59
- Apple, 46, 48, 70–73
- ARPANET, 54
- Ask.com, 264
- AT&T, 19, 20, 23, 25, 30–35, 42, 48, 90, 117, 119
- @Home, 23
  
- Backbone peering, 227
- Ballmer, Steve, 125, 126
- Basic Telecom Agreement (1997), 41
- Bell Labs, 30, 31
- Berners-Lee, Tim, 24
- BitTorrent, 114, 115
  
- Broadband, 23, 27, 51–57, 86, 105, 106, 110, 178–182
- Broadcasting, 38–42, 96, 123, 124
- Bundling, 73, 74
  
- Cable Rate Act (1992), 39
- Cable television, 39, 40, 109, 120
- Carter administration, 34
- Carterfone, 20, 31, 118
- CCITT, 214
- CDMA, 191, 192
- Cheap Revolution, 47–57, 61, 62, 71, 86, 176, 202, 203
- China Mobile, 46
- Cisco, 67, 71, 72, 114
- Cloud, The, 44–46, 49, 50, 65–67
- Comcast, 114, 115
- Competition
  - global, 99–104
  - network, 98
  - value-added, 151–156
- Consumer services, 254–267
- Consumer welfare, 91, 92
- Content, 61, 73–81, 92
- Convergence, 73–81
- Cookies, 263
- Copyright, 92–94, 123–126, 258
- Creative Commons, 259
- Cross-border services, 156–160
- CTIA, 188
- Cultural protection, 123, 124

- DARPA, 210–212
- Data protocols, 24
- Deregulation, of public utilities, 33, 34
- Digital Millennium Copyright Act, 71
- Digital modularity, 61–63
- Digital music players, 70–73
- Digital networking, 208, 209
- Digital rights, 124, 125, 258, 259
- Directive on Electronic Communication Services (EU, 2003), 122, 123
- DoCoMo, 191, 199, 200
- Domain-name system, 218–220, 230
- Dot-com bubble, 23, 114
- Duopolies, 41
- Dust Networks, 54
  
- EAccess, 121, 122
- EBay, 23, 25, 261
- E-commerce, 23–25
- Efficiencies principle, 236
- EMobile, 73
- End-to-End Research Group, 54
- Entry policy, 108–113
- ENUM, 239
- Ericsson, 192
- ESnet, 55, 56
- ETSI, 177, 188
- European Digital Library, 239
- European Union, 122, 123, 139, 161–163, 173, 190–194, 202, 205
- EU-27, 107, 108, 122, 123
  
- Facebook, 59, 70, 75
- Fair use, 124–126
- Fashion-industry metaphor, 67–70, 73
- Federal Communications Commission, 26–28, 35–37, 92, 109, 110, 114, 117, 119, 140, 157–159, 165–167, 226, 227
- Fiber, 52, 91
- Fiber capacity, 91
- Fiber networks, 23
- Fiber-optic networks, 25, 109
  
- Film industry, 75
- Frontline Wireless, 118, 119
  
- GAC, 221, 224, 231
- Gambling and gaming, 75, 76, 107, 124, 172
- GATT, 153, 154
- Global coordination mechanisms, 204, 205
- Global Mobile Suppliers Association, 197
- Gmail, 264
- Google, 43–48, 59, 65, 66, 72, 82, 96, 117, 247, 258, 261–264
- Governance
  - commons, 238
  - free-market, 238, 239
  - global market, 15–18
  - guidelines for, 170–172
  - managed-entry, 156, 164, 172, 173
  - network, 13–18
  - principles, 238–267
  - spectrum, 175–177
  - supply-side, 150–152
  - theory, 129–145
- Grids, 248, 249
- Grid-style computing networks, 12
- Grid, The, 44, 91, 120
- Grove, Andy, 7
- GSM, 187, 190–195
- GSX, 69
  
- HTML, 24, 72
- Huawei, 201, 202
- Hulu, 96, 125
  
- IANA, 221
- IBM, 19, 20, 22, 38, 42, 54, 66–68, 91, 145, 152, 214
- ICANN, 137–140, 209, 218–224, 231
- ICT Guiding Principles and Norms, 265
- IETF, 137, 211–216, 230, 231
- IGF, 224

- Inflection point, 7–11, 235–240  
Innovation, 91, 92, 98  
Institutional design norm, 240–242  
Intel, 42, 49  
Intellectual property, 92–94, 187, 124  
Interconnection, 95, 116, 117, 214, 224–230, 235  
International reforms, 150, 151  
Internet, 24, 73, 74, 208–230  
Internet Activities Board, 212  
Internet Research Task Force, 54  
Internet Society, 204, 205  
iPhones, 48  
iPod, 70–73  
IPTV, 124, 257  
ISPs, 226  
ITU, 136, 137, 140, 151, 152, 191, 192, 214, 215, 226, 227, 228, 230  
iTunes, 75, 92
- JETRO, 104  
Joost, 61, 62, 92
- Kaarlgaard, Rich, 49  
Kazaa, 61  
Kindle, 68, 71
- Leveraging, 116, 117  
Liberal paternalism, 259  
Licensing, 92–94, 195–197  
Live portals, 82  
Low-performance IT, 21  
Lucent, 155, 156, 191
- Market entry, 95  
Market niches, 77, 78  
Market reform, 167, 168  
MCI, 34, 38  
Medical databases, 85–87  
Mergers, 38, 39, 90, 109, 117, 201  
Microelectronics revolution, 49–51  
Microprocessor revolution, 23  
Microsoft, 20, 24, 25, 38, 42, 46, 59, 65, 66, 109, 126, 247, 261, 264  
Mirror sites, 228, 229  
Mobile networks, 53, 107, 108  
Mobile terminals, 52  
Mobile wireless, 23  
Modularity, 7, 11–13, 17, 20–22, 46–51, 58, 60, 72, 77, 86, 92, 93, 112, 113, 116, 202, 203, 236, 258  
Monopolies, 22, 30–35, 151, 152, 157, 159, 176, 258  
Moore's Law, 49, 50  
Motorola, 70, 187, 188  
Mp3, 70  
MSN, 23  
MSN/Live, 82  
MTV, 96  
Multi-sided platforms, 47–49  
Music industry, 75  
MySpace, 70, 96
- NAFTA, 152–156  
National LambdaRail, 54, 55  
NSF, 224–230  
Navteq, 68  
Netscape, 23–25  
Net settlement payments, 157–159  
Netvibes, 82  
Network infrastructure, 172, 242–254  
Network neutrality, 113–123  
Network revolution, 51–57  
Network speed, 21, 22  
Next-Generation Network, 51–57  
NFSNET, 212  
NGOs, 228  
Niche markets, 69, 70  
Nokia, 46, 68  
Non-interference, 203–205  
Nortel, 155, 194  
Northern European wireless carrier group, 202  
NSFNET, 214  
NTT, 51, 121, 122, 191

- OECD, 99–104, 245
- Ofcom, 92
- Operating systems, 57, 58
- Oracle, 44
- Organizational structures, 44–46
- OS-agnostic applications, 57, 58
- OSI, 214
  
- Pageflakes, 82
- Palm, 47
- PC, 19, 23, 24
- PDC, 188
- Peer-to-peer connections, 74, 75
- PNP, 81–86, 95, 104, 105, 257, 258, 261, 264
- Political activities
  - of software firms, 115, 116
  - of Web firms, 114, 115
- Pornography, 124
- Powell, Michael, 253
- Price controls, 113–116
- Pricing
  - flat-rate, 113–116
  - reform, 91
- Privacy, 86, 93, 94, 261, 262
- Privatization, 40, 223
- Production transformation, 25
- Property rights, 185, 186
- PTTs, 152
- Public communications policy, history, 8–10
  
- Qualcomm, 49, 191, 192, 200, 201
  
- RAZR, 70
- RCA, 39, 61
- Reagan administration, 34
- Reformulation, proposals for, 233–267
- Regulatory harmonization, 262, 263
- Research
  - facilities for, 88–90
  - and systems management, 87–89
- Resources, allocation, 216–224
  
- RFIDs, 50, 54
- Royalties, 124–126
- RSS, 58, 59
  
- Salesforce.com, 69
- Samsung, 202
- Satellite broadcast networks, 39, 40
- Schelling, Thomas, 132
- Search
  - horizontal, 44–46
  - visual, 62, 63
- Search dominance, 44–46, 61–63
- Search engines, 62, 63
- Second Life, 59
- Semiconductor industry, 23
- SK Communications, 76
- Skype, 61, 74, 117
- Sky TV, 92
- SOA, 44, 45
- Softbank, 121, 122
- Software revolution, 56–60
- Specialized services, 77, 78
- Spectrum
  - allocation, 193, 194
  - license assignments, 195–197
  - policy, 108–113, 123, 173, 174
- Spokeo, 82
- Sprint-Nextel, 38, 119
- Supply chains, modular, 242–245
- Systems integration, 65–70
  
- TCP/IP, 214
- TD-SCMA, 192
- Telecommunications Act (1996), 36, 37, 40
- Telefonica, 192
- Telephone companies, regional, 35–38, 90, 110, 117, 120, 195
- Television, 61–63, 74
- Terminals, market in, 70–73
- TIA, 188
- Time-Warner, 38
- TLDs, 218–220, 230

- T-Mobile, 119
- Trade agreements, 151–154, 256
- Trade rules, 149
- Transactional inefficiencies, 92–94
- Transmission capacity, 23
- Tunis Declaration, 228
  
- Ultra-broadband services, 12, 54–56
- UMTS, 190, 192
- Unbundling, 109–111
- United Nations, 224
  
- VANs, 151–153, 159
- Venture capital, 105
- Verisign, 221
- Verizon, 119
- Vertical integration, 71
- Vertical niches, 81
- Visualization tools, 12
- Vocera Communications, 248
- VodPod, 82
- VoIP, 72, 109
  
- W-CDMA, 190, 192, 194, 197
- Web 2.0, 82, 126
- WiFi, 247, 199
- WiMAX, 199–201
- Windows, 24, 25, 47, 48, 57
- Wintel, 68
- Wireless broadband services
  - 1G, 175–177
  - 2G, 175–177, 187–191
  - 2.5 G, 198
  - 3G, 52, 176, 177, 182–193, 197–199, 202–204
  - 3GSM, 192
  - 4G, 203, 204
- World of Warcraft, 76
- World Summit on the Information Society, 214, 215, 230
- World Wide Web Consortium, 139, 140
- WRC, 193
  
- WSIS, 223, 224, 228, 229
- WTO, 138–141, 149, 159, 160, 177, 190, 203–205, 226, 227, 230
- WTO Agreement (1997), 163–174
- WTO Basic Telecom Agreement (1997), 41
  
- Yahoo, 46, 66, 82, 117, 121, 122, 126
- YouTube, 72, 76, 93, 96, 125, 257, 258
  
- Zillow, 263, 264

