References

- Abbate J, 1999 Inventing the Internet (MIT Press, Cambridge, MA)
- Aberley D, 1993 *Boundaries of Home: Mapping for Local Empowerment* (New Society Publishers, Gabriola Island, BC)
- Abramson B D , 2000, "Internet globalization indicators" *Telecommunications Policy* 24 69-74
- Adams PC, 1997, "Cyberspace and virtual places" Geographical Review 87(2) 155-171
- Aitken S C 2002, "Public participation, technological discourses and the scale of GIS" in Craig W J, Harris T M, and Weiner D, (eds) *Community Participation and Geographical Information Systems* (Taylor & Francis, London) 357-366
- Akerman J R, 1993, "Blazing a well worn path: cartographic commercialism, highway promotion and automobile tourism in the United States, 1880-1930" *Cartographica* 30(1) 10-19
- Akerman J R, 2002, "American promotional road mapping in the twentieth century" Cartography and Geographic Information Science 29(3) 175-191
- Anders P, 1998 Envisioning Cyberspace: Designing 3D Electronic Space (McGraw Hill, New York)
- Anderson B, 1991 Imagined Communities: Reflections on the Origins and Spread of Nationalism, Second Edition (New York, Verso)
- Andrews J H, 2001, "Meaning, knowledge and power in the map philosophy of J.B. Harley" in Laxton P, (ed) *The New Nature of Maps: Essays in the History of Cartography* (The Johns Hopkins University Press, Baltimore) 1-32
- Arnum E, Conti S, 1998, "Internet deployment worldwide: the new superhighway follows the old wires, rails and roads" *Proceedings of INET'98 Conference* www.isoc.org/inet98/proceedings/5c/5c_5.html
- Arrowsmith C, Wilson M, 1998, "Telecom tectonics using geographic information systems" *Cartography* 27(1) 1-8
- Aurigi A, 2005 Making the Digital City: The Early Shaping of Urban Internet Space (Aldershot, Ashgate)
- Avelar S, Hurni L, 2006, "On the design of schematic transport maps" *Cartographica* 41(3) 217-228
- BAN 2002, Exporting Harm: The High-Tech Trashing of Asia, The Basel Action Network (BAN) and Silicon Valley Toxics Coalition <www.ban.org>

- Barford A, Dorling D, 2008, "Telling an old story with new maps" in Dodge M, McDerby M and Turner M, (eds) *Geographic Visualization: Concepts, Tools and Applications* (John Wiley and Sons, Chichester, England) 67-107
- Barlow J P,1998, "Africa rising" *Wired Magazine*, January www.wired.com/wired/archive/6.01/barlow.html
- Barty-King H, 1979 Girdle round the Earth (Heinemann, London)
- Barnett T P M, 2003, "The Pentagon's new map" *Esquire* March, www.esquire.com/features/articles/2004/040510_mfe_barnett_1.html
- Bassett T J, 1994, "Cartography and empire building in nineteenth-century West Africa" *Geographical Review* 84(3) 316-335
- Batty M, 1993, "Editorial: The geography of cyberspace" *Environment and Planning B: Planning and Design* 20 615-616
- Batty M, 1997, "Virtual geography" Futures 29(4/5) 337-352
- Batty M, Barr B, 1994, "The electronic frontier: exploring and mapping cyberspace" *Futures* 26(7) 699-712
- Batty M, Miller H J, 2000, "Representing and visualizing physical, virtual and hybrid information space" in Janelle D G, Hodge D C, (eds) *Information, Place, and Cyberspace* (Springer, Berlin) 133-146
- Behr P, 2000, "On or off the bandwidth bandwagon?" Washington Post, 24 September, H01
- Belson K, 2005, "Ex-chief of WorldCom is found guilty in \$11 billion fraud" *The New York Times* 16 March <www.nytimes.com/2005/03/16/business/16ebbers.html>
- Belyea B, 1992, "Images of power: Derrida/Foucault/Harley" Cartographica 29(2) 1-9
- Benedikt M, 1991, "Cyberspace: some proposals" in Benedikt M, (ed) *Cyberspace: First Steps* (MIT Press, Cambridge, MA) 119-224
- Bertin J, 1981 *Graphics and Graphic Information Processing* (Walter de Gruyer & Co., Berlin)
- Biggs M, 1999, "Putting the state on the map: Cartography, territory, and European state formation" *Comparative Studies in Society and History* 41(2) 374-405
- Bijker W E, Law J, 1992 Shaping Technology/Building Society: Studies in Sociotechnical Change (MIT Press, Cambridge, MA.)
- Bingham N, 1999, "Unthinkable complexity? Cyberspace otherwise" in Crang M, Crang P, and May J, (eds) *Virtual Geographies* (Routledge, London) 244-260
- Black J, 1997 Maps and Politics (Reaktion Books, London)
- Black J, 2000 Maps and History (Yale University Press, New Haven)

- Blaut J M, Stea D, Spencer C and Blades M, 2003, "Mapping as a cultural and cognitive universal" *Annals of the Association of American Geographer* 93(1) 165-185
- Board C, 1967, "Maps as models" in Chorley R J, Haggett P, (eds) *Models in Geography* (Methuen, London) 671-725
- Board C, 1991, "Things maps won't show us: Reflections on the impact of security issues on map design", in Rybaczuk K, Blakemore M, (eds) Mapping the Nations, Proceedings of the International Cartographic Associations 15th Conference 1 136-148
- Board C, Davies R J and Fair T J D, 1970, "The structure of the South African space economy: An integrated approach" *Regional Studies* 4(3) 367-392
- Board C, Taylor R M, 1977, "Perception and maps: Human factors in map design and interpretation" *Transactions of the Institute of British Geographers* NS 2 19-36
- Bodzin S, 1999, "The cyberspace cartographers" *Wired News* 26 August www.wired.com/news/culture/0,1284,21419,00.html
- Branigan S, Burch H, Cheswick B, and Wojcik F, 2001, "What can you do with traceroute?" *Internet Computing* 5(5) 96-97
- Brody K, Dunstan S, 2003 The Great Telecoms Swindle (Capstone, Oxford)
- Brunn S D, Cottle C D, 1997, "Small states and cyberboosterism" *Geographical Review* 87(2) 240-258
- Buck-Morss S, 1995, "Envisioning capital: Political economy on display" *Critical Inquiry* 21(2) 434-467
- Bunge W, 1971 *Fitzgerald: Geography of a Revolution* (Schenkman Publishing Company, Cambridge, MA)
- Bunge W, 1975, "Detroit humanly viewed: the American urban present" in Abler R, Janelle D, Philbrick A, and Sommer J, (eds) *Human Geography in a Shrinking World* (Duxbury Press, North Scituate, MA) 149-181
- Burch H, Cheswick B, 1999, "Mapping the Internet" Computer, April, 97-98, 102
- Bures F, 2006, "The cost of staying connected" *Wired Magazine* May, page 53; scanned version from <www.flickr.com/photos/24657869@N00/156209557>
- Burnett A, 1985, "Propaganda cartography" in Pepper D, Jenkins A, (eds) *The Geography of Peace and War* (Blackwell, Oxford) 60-88
- Burrows R, Gane N, 2006, "Geodemographics, software and class" Sociology 40(5) 793-812
- Cairncross F, 1997 *The Death of Distance: How the Communications Revolution Will Change Our Lives* (Harvard Business School Press, Boston)
- Card S K, Mackinlay J D, and Shneiderman B, 1999 *Readings in Information Visualization: Using Vision to Think* (Morgan Kaufmann Publishers, Inc., San Francisco)

- Cartwright W, Peterson M P and Gartner G, 1999 *Multimedia Cartography* (Springer, London)
- Castells M, 1996 The Rise of the Network Society (Blackwell, Oxford)
- Castells M, 1998 End of Millennium (Blackwell, Oxford)
- Castells M, 2001 The Internet Galaxy: Reflections on the Internet, Business and Society (Oxford University Press, Oxford)
- CCR, 1990, "Selected ARPANET maps" Computer Communications Review 20(3) 81-110
- Choucri N, 2000, "Cyberpolitics in international relations" *International Political Science Review* 21(3) 243-263
- Cherry S M, 2004, "A world divided by a common internet" *IEEE Spectrum* February 54-55
- Cloud J, 2002, "American cartographic transformations during the Cold War" *Cartography and Geographic Information Science* 29(3) 261-82
- Coffman, K.G. & Odlyzko, A.M., 2000, "Internet growth: Is there a "Moore's Law" for data traffic?" AT&T Labs Working Paper, July 2000 http://portal.acm.org/citation.cfm?id=779236>
- Colwell R, 2004, "The new landscape of science: A geographic portal", *Annals of the Association of American Geographers* 94(4) 703-708
- Conners L, 1997, "Freedom to connect" *Wired Magazine* August, 106-107 www.wired.com/wired/archive/5.08/map.html>
- Conners-Petersen L, 1998, "The wired world atlas" *Wired Magazine* November, 162-167 www.wired.com/wired/archive/6.11/mediamap.html>
- Conrad J, [1902] 1994 Heart of Darkness (Penguin, London)
- Cornford J, 1999, "Counting computers or why we are not well informed about the information society" in Dorling D, Simpson S, (eds) *Statistics in Society: The Arithmetic of Politics* (Arnold, London) 384-390
- Cosgrove D 1989, "Looking in on our world: Images of global geography" in *The Globe:* Representing the World (Allanwood Press) 13-18
- Cosgrove D, 1994, "Contested global visions: One-world, Whole-Earth and the Apollo space photographs" *Annals of the Association of American Geographers* 82(2) 270-294
- Cosgrove D, 1999b, "Introduction: mapping meaning" in Cosgrove D (ed), *Mappings* (Reaktion Books, London) 1-23
- Cosgrove D, 2003, "Historical perspectives on representing and transferring spatial knowledge" in Silver M, Balmori D, (eds) *Mapping in the Age of Digital Media* (Wiley-Academy, London) 128-137

- Couclelis H, 1998, "Worlds of information: The geographic metaphor in the visualization of complex information" *Cartography and Geographic Information Systems*, 25(4) 209-220
- Cox K C, Eick SG and He T, 1996, "3D geographic network display" *ACM Sigmod Record* 25(4) 50-54
- Craig W J, Harris T M, and Weiner D, 2002 Community Participation and Geographic Information Systems (Taylor & Francis, London)
- Crampton J, 1999, "Virtual geographies: the ethics of the Internet", in Proctor J D, Smith D M, (eds) *Geography and Ethics: Journeys in a Moral Terrain* (Routlege, London), 72-91
- Crampton J W, 2001, "Maps as social constructions: power, communication and visualization" *Progress in Human Geography* 25(2) 235-252
- Crampton J W, 2002, "Thinking philosophically in cartography: A critical politics of mapping" *Cartographic Perspectives* 42 12-31
- Crampton J W, 2003 *The Political Mapping of Cyberspace* (Edinburgh University Press, Edinburgh)
- Crampton J W, 2004, "GIS and geographic governance: reconstructing the choropleth map" *Cartographica* 39(1) 41-53
- Crone G R, 1953 Maps and Their Makers: An Introduction to the History of Cartography (Hutchinson's University Library, London)
- Curry M R, 1997, "The digital individual and the private realm" *Annals of the Association of American Geographers* 87(4) 681-99
- Daly J A, 1999, "Measuring impacts of the Internet in the developing world" *Information Impacts Magazine*, May <www.cisp.org/imp/may_99/daly/05_99daly.htm>
- December J, 1995, "A cybermap gazetteer: Maps of the on-line world for browsing and business" in Staple G (ed), *TeleGeography 1995: Global Tele-communications Traffic Statistics & Commentary* (TeleGeography, Washington DC) 74-81
- De Cock C, Fitchett J A, and Farr M, 2001, "Myths of a near future: Advertising the new economy" *Ephemera: Critical Dialogues on Organization* 1(3) 201-222
- Dent B, 1995 Cartography: Thematic Map Design, Fifth Edition (McGraw-Hill, New York)
- DiBiase D, 1990, "Visualization in the earth sciences" Earth and Mineral Sciences 59(2)
- Dicken, P, 2003 The Global Shift, Fourth Edition (Sage, London)
- Deitrick S, Edsall R, 2008, "Making uncertainty usable: Approaches for visualizing uncertainty information" in Dodge M, McDerby M and Turner M, (eds) *Geographic Visualization: Concepts, Tools and Applications* (John Wiley and Sons, Chichester, England) 277-290

- Dodge M, 1998, "The geographies of cyberspace" Paper presented at the *94th Annual Meeting* of the Association of American Geographers 25-29 March, Boston
- Dodge M, 1999a, "Mapping MUDs" *Mappa.Mundi Magazine* October http://mappa.mundi.net/maps/maps_005/
- Dodge M, 1999b, "MIDS maps the Internet world" *Mappa.Mundi Magazine* December http://mappa.mundi.net/maps/maps_007/>
- Dodge M, 2000a, "Mapping the World Wide Web" in Rogers R, (ed), *Preferred Placement: Knowledge Politics on the Web* (Jan van Eyck Akademie, Netherlands) 81-98
- Dodge M, 2000b, "Accessibility to information within the Internet: How can it be measured and mapped?" in Janelle D G, Hodge D C, (eds) *Information, Place, and Cyberspace* (Springer, Berlin) 187-204
- Dodge M, 2000c, "Maps to market your network" *Mappa.Mundi Magazine* May http://mappa.mundi.net/maps/maps_012/
- Dodge M, 2000d, "Mapping where the data flows" *OnTheInternet* April www.isoc.org/oti/articles/0200/dodge.html
- Dodge M, 2000e, "TeleGeography's traffic flow maps" *Mappa.Mundi Magazine* August http://mappa.mundi.net/maps/maps_014/
- Dodge M, 2000f, "NewsMaps: Topographic mapping of information" *Mappa.Mundi Magazine* October http://mappa.mundi.net/maps/maps_015/
- Dodge M, 2001a, "Fly through the Web" *Mappa.Mundi Magazine*, January http://mappa.mundi.net/maps/maps_018/>
- Dodge M, 2001b, "Flowing from site to site Brian Reid's USENET traffic flow maps (circa 1986-95)" *Mappa.Mundi Magazine* May http://mappa.mundi.net/maps/maps_021/
- Dodge M, 2001c, "Mapping how people use a website Ben Fry's anemone visualization" Mappa.Mundi Magazine June http://mappa.mundi.net/maps/maps_022/
- Dodge M, 2001d, "Show me the money SmartMoney's Map of the Market" *Mappa.Mundi Magazine* August http://mappa.mundi.net/maps/maps_023/
- Dodge M, 2002 "Explorations in AlphaWorld: the geography of 3D virtual worlds on the Internet" in Fisher P, Unwin D, (eds) *Virtual Reality in Geography* (Taylor & Francis, London) 305-331
- Dodge M, 2004, "Mapping secret places and sensitive sites: Examining the Cryptome 'Eyeballing' map series" *Society of Cartographers Bulletin* 37(1) 5-11
- Dodge M, 2005 Atlas of Cyberspaces website (Centre for Advanced Spatial Analysis, University College London) <www.cybergeography.org/atlas>
- Dodge M, Kitchin R, 2000a Mapping Cyberspace (Routledge, London)

- Dodge M, Kitchin R, 2000b, "Exposing the 'second text' of maps of the net" *Journal of Computer-Mediated Communication* 5(4) www.ascusc.org/jcmc/vol5/issue4/dodge_kitchin.htm
- Dodge M, Kitchin R, 2001 Atlas of Cyberspace (Addison-Wesley, London)
- Dodge M, Kitchin R, 2004, "Charting movement: Mapping Internet infrastructure" in Hanley R E (ed), *Moving People, Goods, and Information in the Twenty-First Century* (Routledge, London) 159-185
- Dodge M, McDerby M and Turner M, 2008, *Geographic Visualization: Concepts, Tools and Applications* (John Wiley and Sons, Chichester, England)
- Dodge M, Perkins C, 2008a, "Reclaiming the map: British geography and ambivalent cartographic practice" *Environment and Planning A*, in press
- Dodge M, Perkins C, 2008b, "Secret sites and satellite imagery: A possible reversal of the Panopticon?" *Geoforum*, under review
- Dodson S, 2005, "Get mapping: As mapmaking becomes big business, citizen cartographers are creating free personal alternatives" *The Guardian* 7 April
- Dorling D, 1994, "Cartograms for visualizing human geography" in Hearnshaw H M, Unwin D J, (eds) *Visualization in Geographical Information Systems* (John Wiley and Sons, Chichester, England) 85-102
- Dorling D, 1995 A New Social Atlas of Britain (John Wiley and Sons, Chichester, England)
- Dorling D, 1998, "Human cartography: when it is good to map" *Environment and Planning A* 30 277-288
- Dorling D, 2005 Human Geography of the UK (Sage, London)
- Dorling D, Fairbairn D, 1997 Mapping: Ways of Representing the World (Longman, Harlow UK)
- Downey G, 2001, "Virtual webs, physical technologies, and hidden workers: The spaces of labour in information internetworks" *Technology and Culture* 42 209-235
- Downs R M, Stea D, 1977 Maps in Minds (Harper & Row Publishers, New York)
- Dreazen Y J, 2002, "Wildly optimistic data drove telecoms to build fiber glut" *The Wall Street Journal* 26 September
- Drori G S, Jang Y S, 2003, "The global digital divide: A sociological assessment of trends and causes" *Social Science Computer Review* 21(2) 144-161
- Dykes J A, 1997, "cdv: A flexible approach to ESDA with free demonstration software" *Proceedings British Cartographic Society 34th Annual Symposium* 34 100-107
- Dykes J, MacEachren A M, Kraak M-J, 2005 Exploring Geovisualization (Elsevier, London)

- Easterly W, 2007, "The ideology of development" Foreign Policy July/August 1-5
- Economist, 2002, "The power of WorldCom's puff" The Economist 18 July
- Edgerton S Y, 1975 The Renaissance Rediscovery of Linear Perspective (Basic Books, New York)
- Edney M H, 1993, "Cartography without 'progress': reinterpreting the nature and historical development of mapmaking" *Cartographica* 30(2&3) 54-68
- Edney M H, 1996, "Theory and the history of cartography" *Imago Mundi* 48 185-191
- Edney M H, 1997 Mapping an Empire: The Geographical Construction of British India, 1765-1843 (University of Chicago Press, Chicago)
- Edsall R M, 2007, "Iconic maps in American political discourse" *Cartographica* 42(4) 335-347
- Edwards P N, 1996 *The Closed World: Computers and the Politics of Discourse in Cold War America* (MIT Press, Cambridge, MA)
- Elam G, 1999 *Warriors of the Net*. Producer/director: Tomas Stephansson; animation: Gunilla Elam; music/sound: Niklas Hanberger; narration: Monte Reid (Ericsson Medialab, Sweden) <www.warriorsofthe.net>
- Elie M, 1998, "The Internet and global development" *INET'98 Conference* July, Geneva www.isoc.org/inet98/proceedings/5d/5d_3.htm
- Elmer G, 2002 Critical Perspectives on the Internet (Rowman & Littlefield, London)
- Erle S, Gibson R, Walsh J, 2005 Mapping Hacks: Tips & Tools for Electronic Cartography (O'Reilly & Associates, Inc., Sebastopol, CA)
- Evans I S, 1977, "The selection of class intervals" *Transactions of the Institute of British Geographers NS* 2(1) 98-124
- Everard J, 2000 Virtual States: The Internet and the Boundaries of the Nation-State (Routledge, London)
- Fabrikant S I, 2000, "Spatialized browsing in large data archives" *Transactions in GIS* 4(1) 65-78
- Fabrikant S I, Buttenfield B P, 2001, "Formalizing semantic spaces for information access" Annals of the Association of American Geographers 91(2) 263-280
- Fabrikant S I, Montello D R, 2008, "The effect of instructions on distance and similarity judgements in information spatializations" *International Journal of Geographical Information Science* 22(4) 463-478
- Fabrikant S I, Montello D R, Ruocco M and Middleton RS, 2004, "The distance-similarity metaphor in network display spatializations" *Cartography and Geographic Information Science* 31(4) 237-252

- Falk T, Abler R, 1980, "Intercommunications, distance, and geographical theory" *Geografiska Annaler, Series B, Human Geography* 62(2) 59-67
- Fisher P, Unwin D, 2001 Virtual Reality in Geography (Taylor & Francis, London)
- Fleming D K, 1984, "Cartographic strategies for airline advertising" *Geographical Review* 74 76-93
- Fleming D K, Roth R, 1991, "Place in advertising" Geographical Review 81 281-291
- Forde L, 2000, "Roadmaps for the superhighway" *The Guardian*, Online, 29 June, 12-13
- Francaviglia R, 1999, "Walt Disney's Frontierland as an allegorical map of the American West" *The Western Historical Quarterly* 30(2) 155-182
- Francaviglia R, 2005, "'Cover the Earth': Maps in advertising and promotion", mimeo
- Frank H, Kahn R E, Kleinrock L, 1972, "Computer communication network design experience with theory and practice" *AFIPS Conference Proceedings of Spring Joint Computer Conference* 40 255-280
- Fremlin G, Sebert L M,1972, "Subject matter and contents of maps in national atlases" *Cartographica* 9(1) 46-74
- French H W, 1995, "On the Internet, most of Africa is getting off to a slow start" *The New York Times* 17 November, page 5
- French S P, Jia X, 2001, "Georgia high-speed telecommunications atlas: An ArcIMS implementation" *Proceedings 2001 ESRI International User Conference* 9-13 July San Diego www.esri.com/library/userconf/proc01/professional/abstracts/a259.html
- Friedman T, 1999 The Lexus and the Olive Tree (HarperCollinsPublishers, London)
- Friendly M, Denis D J, 2003 *Milestones in the History of Thematic Cartography, Statistical Graphics, and Data Visualization*, 25 July www.math.yorku.ca/SCS/Gallery/milestone/>
- Fuller M, 2003, "It looks like you're writing a letter: Microsoft Word" in Fuller M (ed) *Behind* the Blip: Essays on the Culture of Software (Autonomedia, Brooklyn, NY) 137-165
- Garland K, 1994 *Mr Beck's Underground Map* (Capital Transport Publishing, Middlesex, England)
- Gibson R, Erle S, 2006 Google Mapping Hacks (O'Reilly & Associates, Inc., Sebastopol, CA)
- Gibson W, 1984 *Neuromancer* (HarperCollins, London)
- Gibson W, Sterling B, 1992 The Difference Engine (Spectra, New York)
- Giddens A, 1990 *The Consequences of Modernity* (Polity Press, Cambridge)

- Goddard J B, 1970, "Functional regions within the city centre: A study by factor analysis of taxi flows in central London" *Transactions of the Institute of British Geographers* 49 161-182
- Godlewska A, 1989, "To surf or to swim? Responses to J.B. Harley's article 'Deconstructing the map'" *Cartographica* 26(3/4) 96-98
- Goldman R, Papson S and Kersey N, 2003 *Landscapes of Capital* http://it.stlawu.edu/~global
- Goldstein S N, 1995, "Future prospects for NSF's international connections program activities" *Proceedings of the 5th annual Conference of the Internet Society, 27-30 June* www.isoc.org/HMP/PAPER/178/html/paper.html>
- Goodchild M F, 1999, "Cartographic futures on a digital Earth" *Proceedings of the 19th International Cartographic Association*, 14-21 August, Ottawa, Canada
- Goodchild M F, 2008, "What does Google Earth mean for the social sciences?" in Dodge M, McDerby M and Turner M, (eds) *Geographic Visualization: Concepts, Tools and Applications* (John Wiley and Sons, Chichester, England) 11-23
- Goodman S E, Press L, Ruth S R, and Rutkowski A M, 1994, "The global diffusion of the Internet: patterns and problems" *Communications of the ACM* 37(8) 27-31
- Gore A, 1993 *Remarks by Vice President Al Gore at the National Press Club*, December 21 www.ibiblio.org/nii/goremarks.html>
- Gore A, 1994 Remarks prepared for delivery by Vice President Al Gore to the International Telecommunication Union, March 21 http://clinton1.nara.gov/White_House/EOP/OVP/html/telunion.html
- Gorman S P, 2004 Networks, Complexity, and Security: The Role of Public Policy in Critical Infrastructure Protection (Unpublished PhD Thesis, George Mason University)
- Goss J, 1995, "We know who you are and we know where you live': The instrumental rationality of geodemographics systems" *Economic Geography* 71 171-198
- Gottmann J, 1961 Megalopolis: The Urbanized Northeastern Seaboard of the United States (Twentieth Century Fund, New York)
- Gould P, 1991, "Dynamic structures of geographic space" in Brunn S, Leinbach T, (eds)

 Collapsing Space and Time: Geographic Aspects of Communication and Information
 (HarperCollins Academic, London) 3-30
- Graham S, 1998, "The end of geography or the explosion of place? Conceptualizing space, place and information technology" *Progress in Human Geography* 22(2) 165-185
- Graham S, 1999, "Global grids of glass: On global cities, telecommunications and planetary urban networks" *Urban Studies* 36(5) 929-949

- Graham S, 2000, "Constructing premium network spaces: Reflections on infrastructure networks and contemporary urban development" *International Journal of Urban and Regional Research* 24(1) 183-200
- Graham S, Marvin S, 1996 *Telecommunications and the City: Electronic Spaces, Urban Places* (Routledge, London)
- Graham S, Marvin S, 2001 Splintering Urbanism: Networked Infrastructures, Technological Mobilities and the Urban Condition (Routledge, London)
- Gralla P, 2003 How The Internet Works, Seventh Edition (Que, Indianapolis)
- Greenstein S, 2003, "Too much Internet backbone?" IEEE Micro March-April, 78-80
- Greenstein S M, 2004, "The economic geography of Internet infrastructure in the United States", Working paper #0046, Center for the Study of Industrial Organization, Northwestern University
- Gregory D, 1994 Geographical Imaginations (Blackwell, Oxford)
- Grubesic T H, Murray A T, 2005, "Geographies of imperfection in telecommunications analysis" *Telecommunications Policy* 29 69-94
- Grundy A F, 1997 Women, Work and Computerization (Springer, Berlin)
- Guardian, 2008, "The internet's undersea world", *The Guardian*, 1 February 22-23
- Guédon J-C, 2002, "What I believe version 2.0 more yet to come..." *ISOC-Members-Discuss* mailing list, 19 May http://elists.isoc.org/mailman/listinfo/isoc-members-discuss
- Gurstein M, 2003, "Effective use: A community informatics strategy beyond the digital divide" *First Monday* 8(12) www.firstmonday.org/issues/issue8_12/gurstein/index.html
- Gurstein M, 2005, "Southeast Asia Tsunami and the Effective Use of Community ICTs" < nettime > mailing list, 1 January < www.nettime.org >
- Hadlaw J, 2003, "The London Underground map: Imagining modern time and space" *Design Issues* 19(1) 25-35
- Hafner K, Lyon M, 1996 Where Wizards Stay up Late: The Origins of the Internet (Simon and Schuster, New York)
- Hall E, 2003, "Reading maps of the genes: interpreting the spatiality of genetic knowledge" *Health and Place* 9(2) 151-161
- Hall H, 1998, "Africa connected" *First Monday 3*(11) www.firstmonday.dk/issues/issue3_11/hall/index.html
- Hall S S, 1992 Mapping the Next Millennium (Vintage Books, New York)

- Harley J B, 1988a, "Maps, knowledge and power" in Cosgrove D, Daniels S, (eds) *The Iconography of Landscape* (Cambridge University Press, Cambridge) 277-312
- Harley J B, 1988b, "Secrecy and silences: The hidden agenda of state cartography in early modern Europe" *Imago Mundi* 40 57-76
- Harley J B, 1992, "Deconstructing the map" in Barnes T J, Duncan J S, (eds) Writing Worlds: Discourse, Text and Metaphor in the Representation of Landscape (Routledge, London) 231-247
- Harley J B, 2001 [1991], "Can there be a cartographic ethics?" in Laxton P (ed), *The New Nature of Maps: Essays in the History of Cartography* (Johns Hopkins University Press, Baltimore) 197-207
- Harley J B, Woodward D, 1987 *The History of Cartography, Volume 1. Cartography in Prehistoric, Ancient and Medieval Europe and the Mediterranean* (University of Chicago Press, Chicago)
- Haraway D, 1991 Simians, Cyborgs, and Women: The Reinvention of Nature (Routledge, New York)
- Harpold T, 1999, "Dark continents: Critique of Internet metageographies" *Postmodern Culture* 9(2) http://muse.jhu.edu/journals/pmc/v009/9.2harpold.html
- Harris L M, Hazen, H D, 2005, "The power of maps: Counter-mapping for conservation" *ACME: International E-Journal for Critical Geographies* 4(1) 99-130
- Harrison R E, 1953, "Cartography in art and advertising" *Professional Geographer* 2 12-15
- Harrower M and Fabrikant S, 2008, "The role of map animation for geographic visualization" in Dodge M, McDerby M and Turner M, (eds) *Geographic Visualization: Concepts, Tools and Applications* (John Wiley and Sons, Chichester, England) 49-65
- Harrower M, Keller C P, and Hocking D, 1997, "Cartography on the internet: thoughts and preliminary user survey" *Cartographic Perspectives* 26 27-37
- Harvey D, 1989 The Condition of Postmodernity (Blackwell, Oxford)
- Harvey P D A, 1980 *The History of Topographical Maps: Symbols, Pictures and Surveys* (Thames and Hudson, London)
- Heart F, McKenzie A, McQuillan J, Walden D, 1978 ARPANET Completion Report (Bolt Beranek and Newman Inc, Boston); scanned version available from www.cs.utexas.edu/users/chris/think/digital_archive.html
- Hecht J, 1999 City of Light: The Story of Fiber Optics (Oxford University Press, New York)
- Heller E, 2003, "The power of the image to promote science" in Silver M, Balmori D, (eds) *Mapping in the Age of Digital Media* (Wiley-Academy, London)

- Henrikson A K, 1994, "The power and politics of maps" in Demko G J, Wood W B, (eds) Reordering the World: Geopolitical Perspectives on the Twenty-First Century (Westview Press, Boulder, CO) 49-70
- Herb G H, 1997 *Under the Map of Germany: Nationalism and Propaganda 1918-1945* (Routledge, London)
- Hiatt A, 2002, "Blank spaces on the Earth" The Yale Journal of Criticism 15(2) 223-250
- Higgs E, 2004 The Information State in England (Palgrave Macmillan, Basingstoke, UK)
- Hillier A E, 2005, "Residential security maps and neighborhood appraisals: The Home Owners' Loan Corporation and the case of Philadelphia" *Social Science History* 29(2) 207-233
- Hillis K, 1998 "On the margins: The invisibility of communications in geography" *Progress in Human Geography* 22(4) 543-566
- Hodson, Y, 1999 Popular Maps: The Ordnance Survey Popular Edition One-Inch Map of England and Wales, 1919-1926 (The Charles Close Society, London)
- Holderness M, 1998, "Who are the world's information-poor?" in Loader B D (ed) *The Cyberspace Divide: Equality, Agency and Policy in the Information Society* (Routledge, London) 35-56
- Hollis D R, 1996, "Measuring worldwide connectivity: expansion of the Internet" *Journal of Government Information* 23(4) 499-513
- Holmes N, 1991 Pictorial Maps (Watson-Guptill Publications, New York)
- Holzmann G J, Pehrson B, 1995 *The Early History of Data Networks* (IEEE Computer Society Press, Los Alamitos, CA)
- Holtzman S R, 1997 *Digital Mosaics: The Aesthetics of Cyberspace* (Simon and Schuster, New York)
- Hudson-Smith A, 2008, "The visual city", in Dodge M, McDerby M and Turner M, (eds) Geographic Visualization: Concepts, Tools and Applications (John Wiley and Sons, Chichester, England) 183-197
- Huggan G, 1989, "Decolonizing the map: Post-colonialism, post-structuralism and the cartographic connection" *Ariel: A Review of International English Literature* 20(4) 115-131
- Hugill B, 1999 *Global Communications Since 1844: Geopolitics and Technology* (Johns Hopkins University Press, Baltimore)
- Internet Archive, 2004 *Arpanet Text Collection* (Internet Archive, San Francisco) www.archive.org/arpanet/index.html>
- ITU, 2007 Measuring The Information Society 2007: ICT Opportunity Index and World Telecommunication/ICT Indicators (International Telecommunication Union, Geneva)

- ITU, 2008 *Digital Opportunity Index (DOI): Overview*, International Telecommunication Union website <www.itu.int/ITU-D/ict/doi/>
- James J, 2008, "Digital preparedness versus the digital divide: A confusion of means and ends" *Journal of the American Society for Information Science and Technology* 59(5) 785-791
- Jiang B, Ormeling F J, 1997, "Cybermap: the map for cyberspace" *The Cartographic Journal* 34(2) 111-116
- Jiang B, Ormeling F J, 2000, "Mapping cyberspace: Visualising, exploring and analysing virtual worlds" *The Cartographic Journal* 37(2) 117-122
- Janelle D, 1969, "Spatial reorganization: A model and concept" *Annals of the Association of American Geographers* 59 348-364
- Jenks G F, Caspall F C, 1971, "Error on choropleth maps: definition, measurement and reduction" *Annals of the Association of American Geographers* 61 217-244
- Jennings D M, Landweber L H, Fuchs I H, Farber D J, and Adrion W R, 1986, "Computer networking for scientists" *Science* 28 February, 943-950
- Jeter L W, 2003 *Disconnected: Deceit and Betrayal at Worldcom* (John Wiley and Sons, Hoboken, New Jersey)
- Johnson S, 1999, "Maps & Legends" FEED Magazine, 18 March
- Johnston R, 2002, "Manipulating maps and winning elections: measuring the impact of malapportionment and gerrymandering" *Political Geography* 21 1-31
- Jordan T, 1999 *Cyberpower: The Culture and Politics of Cyberspace and the Internet* (Routledge, London)
- Jordan T, 2001, "Measuring the Net: host counts versus business plans" *Information, Communication and Society* 4(1) 34-53
- Kallick-Wakker I, 1994, "Science icons: The visualization of scientific truths" *Leonardo* 27(4) 309-315
- Kahn P, 2000 Mapping Websites: Designing Digital Media (Rotovision, London)
- Kapor M, Barlow J P, 1990, "Across the electronic frontier" *Electronic Frontier Foundation* http://w2.eff.org/Misc/Publications/John_Perry_Barlow/HTML/eff.html
- Keates J S, 1996 Understand Maps, Second Edition (Addison Wesley, Harlow, England)
- Kent R, 1986, "National atlases: the influence of wealth and political orientation on mapping" *Geography* 71 122-130
- Kellerman A, 1986, "The diffusion of BITNET: a communications system for universities" Telecommunications Policy 10 88-92
- Kidron M, Segal R, 1995 The State of the World Atlas (Penguin, London)

- Kitchin R, Dodge M, 2007, "Rethinking maps" Progress in Human Geography 31(3) 331-344
- Klein N, 2000 No Logo (Flamingo, London)
- Koláèný A, 1996, "Cartographic information a fundamental concept and term in modern cartography" *Cartographic Journal* 6 47-49
- Kosonen, K, 2008, "Making maps and mental images: Finnish press cartography in nation-building, 1899-1942" *National Identities* 10(1) 21-47
- Kraak M J, Brown A, 2001 Web Cartography (Taylor & Francis, London)
- Kress G, van Leeuwen T, 1996 *Reading Images: The Grammar of Visual Design* (Routledge, London)
- Kwan M-P, 2002, "Feminist visualization: re-envisioning GIS as a method in feminist geographic research" *Annals of the Association of American Geographers* 92(4) 645-661
- Kwan M-P, 2007, "Affecting geospatial technologies: Toward a feminist politics of emotion" *The Professional Geographer* 59(1) 22-34
- Lakoff G, Johnson M, 1980 *Metaphors We Live By* (University of Chicago Press, Chicago)
- Lamm S E, Reed DA and Scullin W H, 1996, "Real-time geographic visualization of World Wide Web traffic" *Proceedings of Fifth International World Wide Web Conference*, 6-10th May, Paris
- LaQuey T, 1990 The User's Directory of Computer Networks (Digital Press, Cambridge, MA)
- Latour B, 1987 Science in Action (Open University Press, Milton Keynes)
- Latour B, 1990, "Drawing things together" in Lynch M, Woolgar S, (eds) *Representation in Scientific Practice* (MIT Press, Cambridge, MA) 19-68
- Latour B, Woolgar S, 1979 Laboratory Life: The Social Construction of Scientific Facts (Sage, London)
- Lefebvre H, 1991 *The Production of Space*, Trans. Donaldson-Smith N (Blackwell, Oxford)
- Leiner B M, 1993, "Globalization of the Internet", in Lynch D C, Rose M T, (eds) *Internet System Handbook* (Addison-Wesley, Reading, MA), 15-40
- Lemann N, 2001, "Atlas shrugs: The new geography argues that maps have shaped the world" The New Yorker 9 April
- Lessig L, 1999 Code and Other Laws of Cyberspace (Basic Books, New York)
- Lewis T, 1999 Divided Highways: Building the Interstate Highways, Transforming American Life (Penguin, London)

- Lewis M, Wigen K E, 1997 *The Myth of Continents: A Critique of Metageography* (University of California Press, Berkeley)
- Longley P A, Harris R J, 1999, "Towards a new digital data infrastructure for urban analysis and modelling" *Environment and Planning B: Planning and Design* 26(6) 855-878
- Lyman P, 2002, "Archiving the World Wide Web" *Building a National Strategy for Digital Preservation*, April www.clir.org/pubs/reports/pub106/web.html
- Lynch M, 1985, "Discipline and the material form of images: An analysis of scientific visibility" *Social Studies of Science* 15 37-66
- Lynch M, Woolgar S, 1990 Representation in Scientific Practice (MIT Press, Cambridge, MA)
- MacEachren A M, 1982, "The role of complexity and symbolization in thematic map effectiveness" *Annals of the Association of American Geographers* 72(4) 495-513
- MacEachren A M, 1995 *How Maps Work: Representation, Visualization, and Design* (Guilford Press, New York)
- MacEachren A M, Kraak M J, 2001, "Research challenges in geovisualization" *Cartography and Geographic Information Systems* 28(1) 3-12
- MacEachren A M, Robinson A, Hopper S, Gardner S, Murray R, Gahegan M, Hetzler E, 2005, "Visualizing geospatial information uncertainty: What we know and what we need to know" *Cartography and Geographic Information Science* 32(3) 139-160
- Mackinder H J, 1904, "The geographical pivot of history" *The Geographical Journal* 23 421-44
- Madge C, O'Connor H, 2005, "Mothers in the making? Exploring liminality in cyber/space" Transactions of the Institute of British Geographers 30 83-97
- Mahan A K, 2007, "Measuring progress" in *Global Information Society Watch 2007 Report*(Association for Progressive Communications and Third World Institute)
 <www.globaliswatch.org/files/pdf/GISW_Indicators.pdf>
- Main L, 2001, "The global information infrastructure: empowerment or imperialism?" *Third World Quarterly* 22(1) 83-97
- Malecki E J, 2002, "The economic geography of the Internet's infrastructure" *Economic Geography* 78(4) 399-424
- Malecki E J, 2004, "Fibre tracks: explaining investment in fibre optic backbones" Entrepreneurship and Regional Development 16 21-39
- Mandelbrot B, 1967, "How long is the coast of Britain? Statistical self-similarity and fractional dimension" *Science* 156 636-638
- Martin D, 1996, "An assessment of surface and zonal models of population" *International Journal of Geographical Information Systems* 10 973-989

- McDermott P D, 1969, "Cartography in advertising" *The Canadian Cartographer* 6(2) 149-155
- Mennis J, 2003, "Generating surface models of population using dasymetric mapping" *Professional Geographer* 55(1) 31-42
- Miller D, Slater D, 2000 The Internet: An Ethnographic Approach (Berg, Oxford)
- Ministerio de Ciencia y Tecnología, 2001 *Sociedad de la Información en Brasil: Libro Verde* www.acui.org.co/documentos/Libro%20Verde.%20Brasil.pdf>
- Mitchell WJ, 1995 City of Bits: Space, Place and the Infobahn (MIT Press, Cambridge, MA)
- Mitchelson R L, Wheeler J O, 1994, "The flow of information in a global economy: The role of the American urban system in 1990" *Annals of the Association of American Geographers* 84(1) 87-107
- Modelski A, 1984 *Railroad Maps of North America: The First Hundred Years* (Library of Congress, Washington DC)
- Moles A A, 1964, "Théorie de l'information et message cartographique" *Sciences et Enseignement des Sciences* 5(32) 11-16
- Monmonier M, 1995 *Drawing the Line: Tales of Maps and Cartocontroversy* (Henry Holt and Co., New York)
- Monmonier M, 1996 *How To Lie With Maps*, *Second Edition* (University of Chicago Press, Chicago)
- Monmonier M S, 2001 Bushmanders and Bullwinkles: How Politicians Manipulate Electronic Maps and Census Data to Win Elections (University of Chicago Press, Chicago)
- Monmonier, M S, 2002 Spying with Maps: Surveillance Technologies and the Future of Privacy (University of Chicago Press, Chicago)
- Monmonier M, 2005 Rhumb Lines and Map Wars: A Social History of the Mercator Projection (University of Chicago Press, Chicago)
- Monmonier M, 2006 From Squaw Tit to Whorehouse Meadow: How Maps Name, Claim, and Inflame (University of Chicago Press, Chicago)
- Montello D R, 2002, "Cognitive map-design research in the twentieth century: Theoretical and empirical approaches" *Cartography and Geographic Information Science* 29(3) 283-304
- Morgan K, 2004, "The exaggerated death of geography: learning, proximity and territorial innovation systems" *Journal of Economic Geography* 4 3-21
- Munzner T, 2000 *Interactive Visualization of Large Graphs and Networks* (Unpublished PhD Thesis, Department of Computer Science, Stanford University)

- Murray M, Claffy K C, 2001, "Measuring the immeasurable: Global Internet measurement infrastructure" *Passive and Active Measurements (PAM) Workshop*, 23-24 April, Amsterdam www.caida.org/outreach/papers/2001/MeasInfra/
- Musich J, 2006, "Mapping a transcontinental nation: Nineteenth and early twentieth-century American rail travel cartography" in Akerman J R, (University of Chicago Press, Chicago) 97-150
- National Geographic, 2001, "Connecting the planet" *National Geographic Magazine*, December, 78-79
- NCSA, 1994 *Visualization Study of the NSFNET* by Donna Cox and Robert Patterson, Robert National Center for Supercomputing Applications, University of Illinois Urbana-Champaign. Video can be downloaded from http://virdir.ncsa.uiuc.edu/virdir/raw-material/networking/nsfnet/NSFNET_1.htm
- Negroponte N, 1995 Being Digital (Vintage Books, London)
- Nixon R, 2007, "Africa, offline: waiting for the web" *The New York Times* 22 July www.nytimes.com/2007/07/22/business/yourmoney/22rwanda.html
- Norman D A, 1998 *The Invisible Computer* (MIT Press, Cambridge MA)
- NTIA, 1995 Falling Through the Net: A Survey of the 'Have Nots' in Rural and Urban America U.S. National Telecommunications & Information Administration (NTIA), July, Washington DC <www.ntia.doc.gov/ntiahome/digitaldivide/>
- O'Connell P L, 1999, "Beyond geography: mapping unknowns of cyberspace" *The New York Times* 30 September www.nytimes.com/library/tech/99/09/circuits/articles/30maps.html
- Odlyzko A, 2000, "Internet growth: Myth and reality, use and abuse" *iMP: Information Impacts Magazine* November <www.dtc.umn.edu/~odlyzko>
- Odlyzko A M, 2003, "Internet traffic growth: Sources and implications" *mimeo* <www.dtc.umn.edu/~odlyzko>
- Odlyzko A, Tilly B, 2005, "A refutation of Metcalfe's Law and a better estimate for the value of networks and network interconnections" *mimeo* <www.dtc.umn.edu/~odlyzko>
- OECD, 2002 Internet Traffic Exchange and the Development of End-to-End International Telecommunication Competition March 2002 (Organisation for Economic Cooperation and Development, Paris)
- OECD, 2007, *Communications Outlook* 2007 (Organisation for Economic Co-operation and Development, Paris)
- Office of the e-Envoy, 2002 UK Online Annual Report 2002 (Cabinet Office, London)
- Openshaw S, 1984 *The Modifiable Areal Unit Problem*, Concepts and Techniques in Modern Geography 38, (Geo Books, Norwich)

- Ovenden M, 2003 *Metro Maps of the World* (Capital Transport Publishing, Middlesex, England)
- Palmquist R A, 1996, "The search for an Internet metaphor: A comparison of literatures" *ASIS* 1996 Annual Conference Proceedings < www.asis.org/annual-96/ElectronicProceedings/palmquist.html>
- Parks L, 2008, "Digging into Google Earth: An analysis of 'crisis in Darfur'" *Geoforum*, in press
- Paul C, 2003 *Digital Art* (Thames and Hudson, London)
- Peña-López I, 2007, "ICTs for development: from e-Readiness to e-Awareness", mimeo, School of Law and Political Science, Universitat Oberta de Catalunya, Barcelona, 20 November http://ictlogy.net>
- Peluso N L, 1995, "Whose woods are these? Counter-mapping forest territories in Kalimantan, Indonesia" *Antipode* 27(4) 383-406
- Perkins C, 2003, "Cartography: mapping theory" *Progress in Human Geography* 27(3) 341-351
- Perkins C, 2004, "Cartography cultures of mapping: power in practice" *Progress in Human Geography* 28(3) 381–391
- Perkins C, Dodge M, 2008, "The potential of user-generated cartography: a case study of the OpenStreetMap project and Mapchester mapping party" *North West Geographer* 8(1) 19-32
- Perkins C, Thomson A Z, 2005, "Mapping for health: cycling and walking maps of the city" *North West Geography* 5(1) <www.mangeogsoc.org.uk/pdfs/perkins2.pdf>
- Petchenik BB, 1974, "A verbal approach to characterizing the look of maps" *The American Cartographer* 1 63-71
- Peterson M P, 1979, "An evaluation of unclassed crossed-line choropleth mapping" *The American Cartographer* 6(1) 21-37
- Peterson M P, 2001, "The development of map distribution through the Internet" *Proceedings* of the 20th International Cartographic Conference 4 2306-12
- Peterson M P, 2003a Maps and the Internet (Elsevier, Amsterdam)
- Peterson M P, 2003b, "Foundations of research in internet cartography" in Peterson M P (ed) Maps and the Internet (Elsevier Science, Amsterdam) 437-445
- Peterson M P, 2008, *International Perspectives on Maps and the Internet* (Springer, New York)
- Petrazzini B, Kibati M, 1999, "The Internet in developing countries" *Communications of the ACM* 42(6) 31-36

- Pickles J, 1992, "Texts, hermeneutics, and propaganda maps", in Barnes T J, Duncan J S, (eds) Writing Worlds: Discourse, Text, and Metaphor in the Representation of Landscape (Routledge, London) 193-230
- Pickles J, 1995 Ground Truth: The Social Implications of Geographic Information Systems (Guilford Press, New York)
- Pickles J, 1999, "Cartography, digital transitions, and questions of history" *Proceedings of the* 19th International Cartographic Association Conference, 14-21 August, Ottawa, Canada
- Pickles J, 2004a A History of Spaces: Cartographic Reason, Mapping and the Geo-Coded World (Routledge, London)
- Pickles J, 2004b, "Computing geographical futures" in Cloke P, Crang P, Goodwin M, (eds) *Envisioning Human Geographies* (Hodder Arnold, London) 172-194
- Plewe B, 1997 GIS Online (Onward Press, Sante Fe)
- Pred A R, 1973 *Urban Growth and the Circulation of Information, 1970-1840* (Harvard University Press, Cambridge, MA)
- Press L, 1997, "Tracking the global diffusion of the Internet" *Communications of the ACM* 40(11) 11-17
- Press L, 2000, "The state of the Internet: growth and gaps" *INET'2000 Conference* 18-21 July, Yokohama, Japan <www.isoc.org/inet2000/cdproceedings/8e/8e_4.htm>
- Press L, Burkhart G, Foster W, Goodman S, Wolcott P and Woodard J, 1998, "An Internet diffusion framework" *Communications of the ACM* 41(10) 21-26
- Quarterman J S, 1990 *The Matrix: Computer Networks and Conferencing Systems Worldwide*, (Digital Press, Cambridge, MA)
- Quarterman J S, Carl-Mitchell S and Phillips G, 1993, "Mapping networks and services" *Proceeding of INET'93 Conference* 17-20 August, San Francisco
- Quarterman J S, Carl-Mitchell S and Phillips G, 1994, "Internet interaction pinged and mapped" *Proceedings of INET'94 Conference*, Prague www.isoc.org/isoc/whatis/conferences/inet/94/papers/522.ps.gz
- Quarterman J S, Hoskins J C, 1986, "Notable computer networks" *Communications of the ACM* 29(10) 932-971
- Raisz E, 1938 General Cartography (McGraw-Hill, New York)
- Randall N, 1997 *The Soul of the Internet: Net Gods, Netizens and the Wiring of the World* (International Thomson Computer Press, London)
- Reporter without Borders, 2003 The Internet Under Surveillance: Obstacles to the Free Flow of Information Online www.rsf.org

- Rheingold H, 1993 *The Virtual Community: Finding Connections in a Computerized World* (Addison-Wesley, Reading, MA)
- Ristow W W, 1964, "A half-century of oil-company road maps" *Surveying and Mapping* 24(4) 617-637
- Rivlin G, 2002, "The madness of king George" *Wired Magazine*, 10.07, July www.wired.com/wired/archive/10.07/gilder_pr.html>
- Roberts S, Secor A, and Sparke M, 2003, "Neoliberal geopolitics" *Antipode* 35(5) 886-897
- Robinson A H, 1982 Early Thematic Mapping in the History of Cartography (The University of Chicago Press, Chicago)
- Robinson A H, Morrison J L, Muehrcke P C, Kimerling A J and Guptill S C, 1995 *Elements of Cartography, Sixth Edition* (John Wiley and Sons, New York)
- Robinson A H, Sale R D, 1969 *Elements of Cartography, Third Edition* (John Wiley and Sons, New York)
- Roth W-M, McGinn M K, 1998, "Knowing, researching and reporting science education: Lessons from science and technology studies" *Journal of Research in Science Teaching* 35(2) 213-235
- Rorty R, 1980 Philosophy and the Mirror of Nature (Princeton University Press)
- Rose D B, 1996 Nourishing Terrains: Australian Aboriginal Views of Landscape and Wilderness (Australian Heritage Commission), www.ahc.gov.au/publications/generalpubs/nourishing/
- Rundstrom R A, 1991, "Mapping, postmodernism, indigenous people and the changing direction of North American cartography" *Cartographica* 28(2) 1-12
- Russell B, 2005 *TCM* (*Transcultural Mapping*) *Locative Reader* <www.locative.net/tcmreader>
- Rutkowski A M, 1995, "International developments and opportunities", *Internet Society Summit* 11-12 April, San Diego www.ngi.org/rutkowski/amr/presentations.html>
- Salus P, 1995 *Casting the Net: From ARPANET to Internet and Beyond...* (Addison-Wesley, Reading, MA)
- Sawhney H, 1996, "Information superhighway: metaphors as midwives" *Media, Culture and Society* 18(2) 291-315
- Scanlon J H, Wieners B, 1999, "The Internet cloud" *The Industry Standard Magazine* 9 July www.thestandard.com>
- Schulten S, 2001 *The Geographical Imagination in America 1880-1950* (University of Chicago Press, Chicago)

- Searls D, Weinberger D, 2003 World of Ends: What the Internet is and How to Stop Mistaking it for Something Else < www.worldofends.com>
- Senior M L, 2002, "Deprivation indicators", in Rees P, Martin D, Williamson P, (eds) *The Census Data System* (John Wiley and Sons, Chichester, England)
- Shade L R, 2003, "Here come the dot force! The new cavalry for equity?" *Gazette: The International Journal for Communication Studies* 65(2) 107-120
- Shapin S, 1984, "Pump and circumstance: Robert Boyle's literary technology" *Social Studies of Science* 14(4) 481-520
- Shapin S, Schaffer S, 1985 Leviathan and the Air Pump: Hobbes, Boyle and the Experimental Life (Princeton University Press, Princeton)
- Shiode N, Dodge M, 1999, "Visualising the spatial pattern of Internet address space in the United Kingdom" in Gittings B (ed), *Innovations in GIS 6: Integrating Information Infrastructure with GI Technology* (Taylor & Francis, London) 105-118
- Sidak J G, 2003, "The failure of good intentions: The WorldCom fraud and the collapse of American telecommunications after deregulation" *Yale Journal on Regulation* 20 207-267
- Singel R, 2007, "NSA's lucky break: How the U.S. became switchboard to the world" *Wired Magazine* 10 October <www.wired.com/print/politics/security/news>
- Skupin A, 2000, "From metaphor to method: Cartographic perspectives on information visualization" in Roth S F, Keim D A, (eds) *Proceedings IEEE Symposium on Information Visualization (InfoVis 2000)*, 9-10th October, Salt Lake City, 91-97
- Skupin A, Fabrikant S I, 2003, "Spatialization methods: A cartographic research agenda for non-geographic information visualization" *Cartography and Geographic Information Science* 30(2) 95-115
- Slocum T A, Egbert S L, 1993, "Knowledge acquisition from choropleth maps" *Cartography and Geographic Information Systems* 20(2) 83-95
- Slocum T A, McMaster R B, Kessler F C, and Howard H H, 2005 *Thematic Cartography and Geographic Visualization, Second Edition* (Pearson Education, New Jersey)
- Smith M A, 1999, "Invisible crowds in cyberspace: mapping the social structure of the Usenet" in Smith M A, Kollock P, (eds) *Communities in Cyberspace* (Routledge, London) 195-219
- Sobel D, 1995 *Longitude* (Fourth Estate, London)
- Sparke M, 1998, "A map that roared and an original atlas: Canada, cartography, and narration of nation" *Annals of the Association of American Cartographer* 88(3) 463-495
- Spence R, 2001 *Information Visualization* (Addison-Wesley, London)

- Spiller N, 1998 Digital Dreams: Architecture and the New Alchemic Technologies (Ellipsis, London)
- Spring N, Wetherall D, and Anderson T, 2004, "Reverse engineering the Internet" *ACM SIGCOMM Computer Communication Review* 34(1) 3-8
- Standage T, 1998 The Victorian Internet: The Remarkable Story of the Telegraph and the Nineteenth Century's Online Pioneers (Weidenfeld & Nicolson, London)
- Staple G C, 1995, "Notes on mapping the net: from tribal space to corporate space"

 Telegeography 1995: Global Telecommunications Traffic Statistics and Commentary

 (TeleGeography, Inc., Washington DC) 66-73
- Staple G C, Dixon H, 1992, "Telegeography: Mapping the new world order" *Whole Earth Review* Summer, 124-125
- Star S L, Bowker G C, 2002, "How to infrastructure" in Lievrouw L A, Livingstone S, (eds) The Handbook of New Media, Social Shaping and Consequences of ICTs (Sage, London) 151-162
- Sterling B, 1992 *The Hacker Crackdown: Law and Disorder on the Electronic Frontier* (Bantam Books, New York)
- Stewart J Q, 1943, "The use and abuse of map projections" Geographical Review 33 588-604
- Stickler P J, 1990, "Invisible towns: a case study in the cartography of South Africa" *GeoJournal* 22(3) 329-333
- Storr R, 1994 *Mapping* (Museum of Modern Art, New York)
- Sui D Z, 2000, "Visuality, aurality, and shifting metaphors of geographical thought in the late twentieth century" *Annals of the Association of American Geographers* 90(2) 322-343
- Sui D Z, 2008, "The wikification of GIS and its consequences: Or Angelina Jolie's new tattoo and the future of GIS" *Computers, Environment and Urban Systems* 32 1-5
- Surman M, 1996, "Wired words: Utopia, revolution, and the history of electronic highways" INET Conference, Montreal 24-28 June www.isoc.org/inet96/proceedings/e2/e2_1.htm
- Taylor D R F, 2003, "The concept of cybercartography" in Peterson M P, (eds) *Maps and the Internet* (Elsevier Science, Amsterdam) 405-420
- Taylor D R F, Caquard S, 2006, "Cybercartography: Maps and mapping in the information era" *Cartographica* 41(1) 1-5
- Taylor P J, 1999, "The so-called world cities: The evidential structure of a literature" *Environment and Planning A* 31 1901-04
- TeleGeography, 1999 U.S. Internet Geography 2003 (TeleGeography, Inc., Washington DC)
- TeleGeography, 2002 U.S. Internet Geography 2003 (TeleGeography, Inc., Washington DC)

- Thacker E, 2004, "Forward: protocol is as protocol does' in Galloway A R, *Protocol: How Control Exists After Decentralization* (MIT Press, Cambridge MA) xi-xxii
- Thrift N, 2004, "Movement-space: the changing domain of thinking resulting from the development of new kinds of spatial awareness" *Economy and Society* 33(4) 582-604
- Thurlow C, Jaworski A, 2003, "Communicating a global reach: Inflight magazines as a globalizing genre in tourism" *Journal of Sociolinguistics* 7(4) 579-606
- Tobler W R, 1973, "Choropleth maps without class intervals?" *Geographical Analysis* 5 262-265
- Tobler W, 2004, "Thirty five years of computer cartograms" *Annals of the Association of American Geographers* 94(1) 58–73
- Townsend A, 2001, "The Internet and the rise of the new network cities, 1969–1999" Environment and Planning B: Planning and Design 28(1) 39-58
- Townsend A, 2003 Wired / Unwired: The Urban Geography of Digital Networks (Unpublished PhD Thesis, Department of Urban and Regional Planning, MIT)
- Tufte E R, 1983 *The Visual Display of Quantitative Information* (Graphics Press, Cheshire, CT)
- Tufte E R, 2003 The Cognitive Style of Powerpoint (Graphics Press, Cheshire, CT)
- Turchi P, 2004, Maps of the Imagination (Trinity University Press, San Antonio, Texas)
- Turnbull D, 2004, "Approaches to the spatial topography of genetics" in Rheinberger H-J, Gaudilliere J-P, (eds) *Classical Genetic Research and Its Legacy: The Mapping Cultures of Twentieth-Century Genetics* (Routledge, London) 207-219
- Tyner J A, 1982, "Persuasive cartography" Journal of Geography July-August, 140-144
- UNESCO, 1995 *The Right to Communicate At What Price?* Economic Constraints to the Effective Use of Telecommunications in Education, Science, Culture and in the Circulation of Information UNESCO/CII-95/WS/2, (UNESCO / ITU, Paris)
- Varnelis K 2002, *One Wilshire*, exhibition at the Center for Land Use Interpretation, Los Angeles, August http://varnelis.net/>
- Vujakovic P, 1989, "Mapping for world development" Geography 74(2) 97-105
- Vujakovic P, 1995, "The sleeping beauty complex: Maps as text in the construction of national identity", in Hill T and Hughes W, (eds) *Contemporary Writing and National Identity* (Sulis, Bath) 231-243
- Vujakovic, P, 1998, "Reading between the lines: using news media materials for geography" *Journal of Geography in Higher Education* 22(1) 147-155

- Vujakovic P, 1999a, "From 'red carpet' to 'iron curtain': a case study of UK mass media mapping of the European security architecture in the 1990s" *International Workshop on MassMediaMaps*, January 16-19th Budapest http://lazarus.elte.hu/hun/tantort/1999/mmm/pv.htm
- Vujakovic P, 1999b, "A new map is unrolling before us: Cartography in news media representations of post-Cold War Europe" *Cartographic Journal* 36(1) 43-57
- Vujakovic P, 2002a, "Mapping the war zone: cartography, geopolitics and security discourse in the UK press" *Journalism Studies* 3(2) 187-202
- Vujakovic P, 2002b, "Whatever happened to the 'New Cartography'?: The world map and development mis-education" *Journal of Geography in Higher Education* 26(3) 360-380
- Vujakovic P, Matthews M H, 1994, "Contorted, folded, torn: Environmental values, cartographic representation and the politics of disability" *Disability & Society* 9(3) 359-374
- Warf B, 2001, "Segueways into cyberspace: multiple geographies of the digital divide" *Environment and Planning B: Planning and Design* 28 3-19
- Webster F, 1995 Theories of the Information Society (Routledge, London)
- Weiser M, 1991, "A computer for the 21st century" Scientific American 265 94-104
- Whyte B, 2007, "On cartographic vexillology" Cartographica 42(3) 251-262
- Wilson M, 2003, "Chips, bits, and the law: an economic geography of Internet gambling" *Environment and Planning A* 35(7) 1245-1260
- Winichakul T, 1997 *Siam Mapped: A History of the Geo-Body of a Nation* (University of Hawaii Press, Honolulu)
- Wise J A, 1999, "The ecological approach to text visualization" *Journal of the American Society for Information Science* 50(13) 1224-1233
- Wood D, 1992 *The Power of Maps* (Guilford Press, New York)
- Wood D, Fels J, 1986, "Design on signs: Myth and meaning in maps" *Cartographica* 23(3) 54-103
- Wright J K, 1942, "Map makers are human: comments on the subjective in maps" Geographical Review 32 527-544
- WISR, 2007 *World Information Society Report 2007*: Beyond WSIS (International Telecommunication Union, Geneva) < www.itu.int/wisr>
- Yapa L S, 1992, "Why do they map GNP per capita?", in Majumdar S K, Forbes G S, Miller E W, and Schmalz R F, (eds) *Natural and Technological Disasters: Causes, Effects and Preventive Measures* (The Pennsylvania Academy of Science, Easton, PA) 494-510

- Yen A C, 2002, "Western frontier or feudal society?: Metaphors and perceptions of cyberspace" Boston College Law School Faculty Papers, No. 2
- Zakon R H, 2004 Hobbes' Internet Timeline < www.zakon.org/robert/internet/timeline/>
- Zellmer L, 2004, "How homeland security affects spatial information" *Computers in Libraries* 24, 6–8, 37–40 <www.infotoday.com/cilmag/apr04/zellmer.shtml>
- Zook M A, 2000, "The web of production: the economic geography of commercial Internet content production in the United States" *Environment and Planning A* 32 411-426
- Zook M A, 2005 The Geography of the Internet Industry (Blackwell, Oxford)
- Zook M, Graham M, 2007, "The creative reconstruction of the Internet: Google and the privatization of cyberspace and DigiPlace" *Geoforum* 38 1322-1343