

Prelim Reading List for History of Technology

(last updated: January 23, 2006)

Preliminary examination reading list for Dana Freiburger.

List of categories:

1 – Overview, Historiography, and Survey Works

2 – Technology in National Contexts

2.1 – Technology in America

2.2 – Transnational and other technology

2.3 – Technology in Japan

3 – Technology and Systems

3.1 – Computers, Computer Technology, and the Internet

3.2 – Silicon Valley

3.3 – Radio

3.4 – Other

4 – Theory, Method, and Economics in the History of Technology

4.1 – Theory and Method

4.2 – Economics

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12/07/05 – Updated to add categories to Endnote records

01/23/06 – Updated to add numbering and checklist columns

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1 – Overview, Historiography, and Survey Works

01	Daniels, <i>The Big Questions in the History of Technology</i> , 1970.
02	Edgerton, <i>From Innovation to Use: Ten Eclectic Theses on the Historiography of Technology</i> , 1999.
03	Fox, <i>Technological change: methods and themes in the history of technology</i> , 1996.
04	McGaw, <i>Women and the history of American Technology</i> , 1982.
05	Misa, <i>Leonardo to the Internet: technology & culture from the Renaissance to the present</i> , 2004.
06	Molella, <i>The First Generation: Usher, Mumford, and Giedion</i> , 1989.
07	Mumford, <i>Technics and civilization</i> , 1963. (T&C Classics Revisited 43-1)
08	Pacey, <i>Technology in world civilization: a thousand-year history</i> , 1990.
09	Smith and Marx, <i>Does technology drive history? the dilemma of technological determinism</i> , 1994.
10	Staudenmaier, <i>Technology's storytellers: reweaving the human fabric</i> , 1985.
11	Usher, <i>A history of mechanical inventions</i> , 1929.
12	White, <i>Medieval religion and technology: collected essays</i> , 1978.

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2 – Technology in National Contexts

2.1 – Technology in America

01	Calvert, The mechanical engineer in America, 1830-1910; professional cultures in conflict, 1967.
02	Cowan, More work for mother: the ironies of household technology from the open hearth to the microwave, 1983.
03	Cross and Szostak, Technology and American society: a history, 1995.
04	Horowitz and Mohun, His and hers: gender, consumption, and technology, 1998.
05	Hounshell, From the American system to mass production 1800-1932: the development of manufacturing technology in the United States, 1984.
06	Hounshell, Rethinking the History of American Technology, 1989.
07	Hughes, American genesis: a century of invention and technological enthusiasm, 1870-1970, 1990.
08	Hunter, Steamboats on the Western rivers; an economic and technological history, 1949. (T&C 44-4 Classics Revisited)
09	Layton, The revolt of the engineers; social responsibility and the American engineering profession, 1971.
10	Marcus and Segal, Technology in America: a brief history, 1999.
11	McGaw, Most wonderful machine: mechanization and social change in Berkshire paper making, 1801-1885, 1987.
12	Meikle, American plastic: a cultural history, 1995.
13	Meiksins, The Revolt of the Engineers Reconsidered, 1988.
14	Noble, America by design: science, technology, and the rise of corporate capitalism, 1977. (from Ron's list)
15	Nye, Consuming power: a social history of American energies, 1998.
16	Nye, Electrifying America: social meanings of a new technology, 1880-1940, 1990.
17	Oldenziel, Making technology masculine: men, women and modern machines in America, 1870-1945, 1999.
18	Pursell, The machine in America: a social history of technology, 1995.
19	Scharff, Taking the wheel: women and the coming of the motor age, 1992.
20	Smith, Harpers Ferry armory and the new technology: the challenge of change, 1977.
21	Wallace, Rockdale the growth of an American village in the early industrial revolution, 1980.
22	Wise, Willis R. Whitney, General Electric, and the origins of U.S. industrial research, 1985.

2.2 – Transnational and other technology

01	Adas, Machines as the measure of men: science, technology, and ideologies of Western dominance, 1989.
02	Cipolla, Guns, sails and empires; technological innovation and the early phases of European expansion, 1400-1700, 1985.
03	Diamond, Guns, germs, and steel: the fates of human societies, 1999.
04	Graham, The ghost of the executed engineer: technology and the fall of the Soviet Union, 1996.
05	Headrick, The tentacles of progress: technology transfer in the age of imperialism, 1850-1940, 1988.

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2.3 – Technology in Japan

01	Callon, Divided Sun: MITI and the breakdown of Japanese high-tech industrial policy, 1975-1993, 1995.
02	Fukasaku, Foreign Influence in the Development of Shipbuilding Technology and the Education of Engineers in Japan, 1855-1940, 1995.
03	Gooday and Low, Technology Transfer and Cultural Exchange, 1998.
04	Gover, Progress in the Electronics Components Industry in Japan after World War II, 1993.
05	Hashimoto, The Contest over the Standard: The Project of the Transpacific Flight and Aeronautical Research in Interwar Japan, 2002.
06	Hayashi, The Japanese experience in technology: from transfer to self-reliance, 1990.
07	Howe, The origins of Japanese trade supremacy: development and technology in Asia from 1540 to the Pacific War, 1996.
08	Ihara, Development of Electric Power Technology and Social Framework in Japan, 1995.
09	Inkster, Japanese industrialisation: historical and cultural perspectives, 2001. (mainly Chapter 3)
10	Inkster, The Japanese industrial economy: late development and cultural causation, 2001.
11	Johnson, MITI and the Japanese miracle: the growth of industrial policy, 1925-1975, 1982.
12	Johnstone, We were burning: Japanese entrepreneurs and the forging of the electronic age, 1999.
13	Keiji and Yamamura, Shaping the Process of Unification: Technological Progress in Sixteenth- and Seventeenth-Century Japan, 1988.
14	Koizumi, In Search of Wakon: The Cultural Dynamics of the Rise of Manufacturing Technology in Postwar Japan, 2002.
15	Lorell and United States Air Force, Troubled partnership: a history of U.S.-Japan collaboration on the FS-X fighter, 1995.
16	Low, Nakayama and Yoshioka, Science, technology and society in contemporary Japan, 1999.
17	Lynn, How Japan innovates: a comparison with the U.S. in the case of oxygen steelmaking, 1982.
18	McNamara, Textiles and Industrial Transition in Japan, 1995.
19	Morishima, Why has Japan succeeded? western technology and the Japanese ethos, 1982.
20	Morris-Suzuki, Sericulture and the Origins of Japanese Industrialization, 1992.
21	Morris-Suzuki, The technological transformation of Japan: from the seventeenth to the twenty-first century, 1994.
22	Murata, Creativity of Technology: An Origin of Modernity? 2003.
23	Nakajima, A Categorization of Technology and the History of Japanese Modern Technology, 1998.
24	Nishiyama, Aeronautical Technology for Pilot Safety: Reexamining Deck-landing Aircraft in Great Britain, Japan, and the United States, 2003.
25	Nishiyama, Cross-Disciplinary Technology Transfer in Trans-World War II Japan: The Japanese High-Speed Bullet Train as a Case Study, 2003.
26	Odagiri and Goto, Technology and industrial development in Japan: building capabilities by learning, innovation, and public policy, 1996.
27	Perrin, Giving up the gun: Japan's reversion to the sword, 1543-1879, 1979.
28	Samuels, "Rich nation, strong Army": national security and the technological transformation of Japan, 1994.
29	Smith, Native sources of Japanese industrialization, 1750-1920, 1988.
30	Tsutsui, Manufacturing ideology: scientific management in twentieth-century Japan, 1998.
31	Yonekura, The Japanese iron and steel industry, 1850-1990: continuity and discontinuity, 1994.

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3 – Technology and Systems

01	Fischer, <i>America calling: a social history of the telephone to 1940</i> , 1992.
02	Hecht, <i>The radiance of France: nuclear power and national identity after World War II</i> , 1998.
03	Hughes, <i>Rescuing Prometheus</i> , 1998.
04	Noble, <i>Forces of production: a social history of industrial automation</i> , 1984.

3.1 – Computers, Computer Technology, and the Internet

01	Abbate, <i>Inventing the Internet</i> , 1999.
02	Campbell-Kelly and Aspray, <i>Computer: a history of the information machine</i> , 1996.
03	Campbell-Kelly, <i>From airline reservations to Sonic the Hedgehog: a history of the software industry</i> , 2003.
04	Ceruzzi, <i>A history of modern computing</i> , 1998.
05	Ceruzzi, <i>Moore's Law and Technological Determinism</i> , 2005.
06	Cortada, <i>Information technology as business history: issues in the history and management of computers</i> , 1996.
07	Cortada, <i>The digital hand: how computers changed the work of American manufacturing, transportation, and retail industries</i> , 2004.
08	Edwards, <i>Making History: New Directions in Computer Historiography</i> , 2001.
09	Edwards, <i>The closed world computers and the politics of discourse in Cold War America</i> , 1997.
10	Flamm, <i>Creating the computer: government, industry, and high technology</i> , 1988.
11	Flamm, <i>Targeting the computer: government support and international competition</i> , 1987.
12	Kidder, <i>The soul of a new machine</i> , 1981. (see T&C 45-3 Classics Revisited)
13	Landauer, <i>The trouble with computers: usefulness, usability, and productivity</i> , 1995.
14	Light, <i>When Computers Were Women</i> , 1999.
15	Mahoney, <i>Finding a History for Software Engineering</i> , 2004.
16	Mahoney, <i>The Histories of Computing(s)</i> , 2005.
17	Mahoney, <i>The History of Computing in the History of Technology</i> , 1988.
18	Rosenberg, <i>The social impact of computers</i> , 2004.
19	Weber, <i>The success of open source</i> , 2004.
20	Williams, <i>A history of computing technology</i> , 1997.

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3.2 – Silicon Valley

01	Bassett, To the digital age: research labs, start-up companies, and the rise of MOS technology, 2002.
02	Berlin, The man behind the microchip: Robert Noyce and the invention of Silicon Valley, 2005.
03	Gillmor, Fred Terman at Stanford: building a discipline, a university, and Silicon Valley, 2004.
04	Lécuyer, Making Silicon Valley: innovation and the growth of high tech, 1930-1970, 2005.
05	Leslie, The Cold War and American science: the military-industrial-academic complex at MIT and Stanford, 1993.
06	Saxenian, Regional advantage: culture and competition in Silicon Valley and Route 128, 1994.

3.3 – Radio

01	Aitken, Science, Technology, and Economics: The Invention of the Radio as a Case Study, 1978.
02	Douglas, Inventing American broadcasting, 1899-1922, 1987.
03	Hong, Wireless: from Marconi's black-box to the audion, 2001.
04	Lewis, Empire of the air: the men who made radio, 1991.
05	Lynn, The Commercialization of the Transistor Radio in Japan: The Functioning of an Innovation Community, 1998.
06	Takahashi, A Network of Tinkerers: The Advent of the Radio and Television Receiver Industry in Japan, 2000.

3.4 – Other

01	McDougall, The heavens and the earth: a political history of the space age, 1997.
02	Peebles, The Corona project: America's first spy satellites, 1997.

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4 – Theory, Method, and Economics in the History of Technology

4.1 – Theory and Method

01	Bijker, Hughes and Pinch, <i>The Social construction of technological systems: new directions in the sociology and history of technology</i> , 1987.
02	Bijker, <i>Of bicycles, bakelites, and bulbs: toward a theory of sociotechnical change</i> , 1995.
03	Cockburn and Ormrod, <i>Gender and technology in the making</i> , 1993.
04	Collins and Pinch, <i>The golem at large: what you should know about technology</i> , 1998.
05	Edwards, <i>The Army and the Microworld: computers and the politics of gender identity</i> , 1990.
06	Latour, <i>Aramis, or, The love of technology</i> , 1996.
07	Mackenzie, <i>Inventing accuracy: a historical sociology of nuclear missile guidance</i> , 1990.
08	Schatzberg, <i>On Attempting to Construct Alternative Narratives</i> , 2004.
09	Schatzberg, <i>Wings of wood, wings of metal: culture and technical choice in American airplane materials, 1914-1945</i> , 1999.
10	Winner, <i>The whale and the reactor: a search for limits in an age of high technology</i> , 1986.

4.2 – Economics

01	David, <i>Understanding the Economics of QWERTY</i> , 1986.
02	Marx and Engels, <i>Machinery in Large-scale Industry</i> , 1906.
03	Mokyr, <i>The lever of riches: technological creativity and economic progress</i> , 1990.
04	Rosenberg, <i>Exploring the black box: technology, economics, and history</i> , 1994.

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Complete bibliography:

1. Abbate, Janet, *Inventing the Internet* (Cambridge, Mass: MIT Press, 1999).
2. Adas, Michael, *Machines as the measure of men: science, technology, and ideologies of Western dominance* (Ithaca: Cornell University Press, 1989).
3. Aitken, Hugh G. J., "Science, Technology, and Economics: The Invention of the Radio as a Case Study," in Krohn, Wolfgang, Layton, Edwin T., and Weingart, Peter (eds.), *The Dynamics of science and technology: social values, technical norms, and scientific criteria in the development of knowledge* (Dordrecht, Holland: D. Reidel Pub. Co., 1978).
4. Bassett, Ross Knox, *To the digital age: research labs, start-up companies, and the rise of MOS technology* (Baltimore: Johns Hopkins University Press, 2002).
5. Berlin, Leslie, *The man behind the microchip: Robert Noyce and the invention of Silicon Valley* (New York: Oxford University Press, 2005).
6. Bijker, Wiebe E., *Of bicycles, bakelites, and bulbs: toward a theory of sociotechnical change* (Cambridge, Mass.: MIT Press, 1995).
7. Bijker, Wiebe E., Hughes, Thomas Parke, and Pinch, T. J., *The Social construction of technological systems: new directions in the sociology and history of technology* (Cambridge, Mass.: MIT Press, 1987).
8. Callon, Scott, *Divided Sun: MITI and the breakdown of Japanese high-tech industrial policy, 1975-1993* (Stanford, Calif.: Stanford University Press, 1995).
9. Calvert, Monte A., *The mechanical engineer in America, 1830-1910; professional cultures in conflict* (Baltimore: Johns Hopkins Press, 1967).
10. Campbell-Kelly, Martin, *From airline reservations to Sonic the Hedgehog: a history of the software industry* (Cambridge, Mass.: MIT Press, 2003).
11. Campbell-Kelly, Martin and Aspray, William, *Computer: a history of the information machine*, 1st ed. (New York: Basic Books, 1996).
12. Ceruzzi, Paul E., *A history of modern computing* (Cambridge, Mass.: MIT Press, 1998).
13. Ceruzzi, Paul E., "Moore's Law and Technological Determinism," *Technology and Culture* 46-3 (2005), 584-593.
14. Cipolla, Carlo M., *Guns, sails and empires; technological innovation and the early phases of European expansion, 1400-1700*, Sunflower University Press ed. (Manhattan, Kan.: Sunflower University Press, 1985).
15. Cockburn, Cynthia and Ormrod, Susan, *Gender and technology in the making* (London; Thousand Oaks, Calif.: Sage, 1993).
16. Collins, H. M. and Pinch, T. J., *The golem at large: what you should know about technology* (Cambridge; New York: Cambridge University Press, 1998).
17. Cortada, James W., *The digital hand: how computers changed the work of American manufacturing, transportation, and retail industries* (Oxford; New York: Oxford University Press, 2004).
18. Cortada, James W., *Information technology as business history: issues in the history and management of computers* (Westport, Conn.: Greenwood Press, 1996).
19. Cowan, Ruth Schwartz, *More work for mother: the ironies of household technology from the open hearth to the microwave* (New York: Basic Books, 1983).

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20. Cross, Gary S. and Szostak, Rick, *Technology and American society: a history* (Englewood Cliffs, N.J.: Prentice Hall, 1995).
21. Daniels, George, "The Big Questions in the History of Technology," *Technology and Culture* 11(1970), 1-21.
22. David, Paul A., "Understanding the Economics of QWERTY," in Parker, William N. (ed.), *Economic History and the Modern Economist* (Oxford: Blackwell, 1986).
23. Diamond, Jared M., *Guns, germs, and steel: the fates of human societies* (New York: W.W. Norton & Co., 1999).
24. Douglas, Susan J., *Inventing American broadcasting, 1899-1922* (Baltimore: Johns Hopkins University Press, 1987).
25. Edgerton, David, "From Innovation to Use: Ten Eclectic Theses on the Historiography of Technology," *History and Technology* 16(1999), 111-136.
26. Edwards, Paul, "The Army and the Microworld: computers and the politics of gender identity," *Signs* 16(1990), 102-127.
27. Edwards, Paul, "Making History: New Directions in Computer Historiography," *IEEE Annals of the History of Computing* 23-1 (2001), 86-88.
28. Edwards, Paul N., *The closed world computers and the politics of discourse in Cold War America* (Cambridge, Mass.: MIT Press, 1997).
29. Fischer, Claude S., *America calling: a social history of the telephone to 1940* (Berkeley: University of California Press, 1992).
30. Flamm, Kenneth, *Creating the computer: government, industry, and high technology* (Washington, D.C.: Brookings Institution, 1988).
31. Flamm, Kenneth, *Targeting the computer: government support and international competition* (Washington, D.C.: Brookings Institution, 1987).
32. Fox, Robert, *Technological change: methods and themes in the history of technology* (Australia; United States: Harwood Academic, 1996).
33. Fukasaku, Yukiko, "Foreign Influence in the Development of Shipbuilding Technology and the Education of Engineers in Japan, 1855-1940," *History and Technology* 12-2-3 (1995), 119-127.
34. Gillmor, C. Stewart, *Fred Terman at Stanford: building a discipline, a university, and Silicon Valley* (Stanford, Calif.: Stanford University Press, 2004).
35. Gooday, Graeme J.N. and Low, Morris F., "Technology Transfer and Cultural Exchange," *Osiris* 13(1998), 99-128.
36. Gover, James E., "Progress in the Electronics Components Industry in Japan after World War II," in Aspray, William (ed.), *Technological competitiveness: contemporary and historical perspectives on the electrical, electronics, and computer industries* (New York: Institute of Electrical and Electronics Engineers, 1993).
37. Graham, Loren R., *The ghost of the executed engineer: technology and the fall of the Soviet Union* (Cambridge, Mass.: Harvard University Press, 1996).
38. Hashimoto, Takehiko, "The Contest over the Standard: The Project of the Transpacific Flight and Aeronautical Research in Interwar Japan," *Historia Scientiarum* 11-3 (2002), 226-244.
39. Hayashi, Takeshi, *The Japanese experience in technology: from transfer to self-reliance* (Tokyo, Japan: United Nations University Press, 1990).
40. Headrick, Daniel R., *The tentacles of progress: technology transfer in the age of imperialism, 1850-1940* (New York: Oxford University Press, 1988).

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41. Hecht, Gabrielle, *The radiance of France: nuclear power and national identity after World War II* (Cambridge, Mass.: MIT Press, 1998).
42. Hong, Sungook, *Wireless: from Marconi's black-box to the audion* (Cambridge, Mass.: MIT Press, 2001).
43. Horowitz, Roger and Mohun, Arwen, *His and hers: gender, consumption, and technology* (Charlottesville: University Press of Virginia, 1998).
44. Hounshell, David, "Rethinking the History of American Technology," in Kranzberg, Melvin, Cutcliffe, Stephen H., and Post, Robert C. (eds.), *In context: history and the history of technology: essays in honor of Melvin Kranzberg* (Bethlehem: Lehigh University Press, 1989).
45. Hounshell, David A., *From the American system to mass production 1800-1932: the development of manufacturing technology in the United States* (Baltimore: Johns Hopkins University Press, 1984).
46. Howe, Christopher, *The origins of Japanese trade supremacy: development and technology in Asia from 1540 to the Pacific War* (Chicago: University of Chicago Press, 1996).
47. Hughes, Thomas Parke, *American genesis: a century of invention and technological enthusiasm, 1870-1970* (New York, N.Y., U.S.A.: Penguin Books, 1990).
48. Hughes, Thomas Parke, *Rescuing Prometheus*, 1st ed. (New York: Pantheon Books, 1998).
49. Hunter, Louis C., *Steamboats on the Western rivers; an economic and technological history* (Cambridge: Harvard University Press, 1949).
50. Ihara, Satoshi, "Development of Electric Power Technology and Social Framework in Japan," *Historia Scientiarum* 5-2 (1995), 127-165.
51. Inkster, Ian, *The Japanese industrial economy: late development and cultural causation* (London; New York: Routledge, 2001).
52. Inkster, Ian, *Japanese industrialisation: historical and cultural perspectives* (London; New York: Routledge, 2001).
53. Johnson, Chalmers A., *MITI and the Japanese miracle: the growth of industrial policy, 1925-1975* (Stanford, Calif.: Stanford University Press, 1982).
54. Johnstone, Bob, *We were burning: Japanese entrepreneurs and the forging of the electronic age* (New York: Basic Books, 1999).
55. Keiji, Nagahara and Yamamura, Kozo, "Shaping the Process of Unification: Technological Progress in Sixteenth- and Seventeenth-Century Japan," *Journal of Japanese Studies* 14-1 (1988), 77-109.
56. Kidder, Tracy, *The soul of a new machine*, 1st ed. (Boston: Little, Brown, 1981).
57. Koizumi, Kenkichi, "In Search of Wakon: The Cultural Dynamics of the Rise of Manufacturing Technology in Postwar Japan," *Technology and Culture* 43-1 (2002), 29-49.
58. Landauer, Thomas K., *The trouble with computers: usefulness, usability, and productivity* (Cambridge, Mass.: MIT Press, 1995).
59. Latour, Bruno, *Aramis, or, The love of technology* (Cambridge, Mass.: Harvard University Press, 1996).
60. Layton, Edwin T., *The revolt of the engineers; social responsibility and the American engineering profession* (Cleveland: Press of Case Western Reserve University, 1971).

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(last updated: January 23, 2006)

61. Lécuyer, Christophe, *Making Silicon Valley: innovation and the growth of high tech, 1930-1970* (Cambridge, MA: MIT Press, 2005).
62. Leslie, Stuart W., *The Cold War and American science: the military-industrial-academic complex at MIT and Stanford* (New York: Columbia University Press, 1993).
63. Lewis, Tom, *Empire of the air: the men who made radio*, 1st ed. (New York, NY: Edward Burlingame Books, 1991).
64. Light, Jennifer S., "When Computers Were Women," *Technology and Culture* 40-3 (1999), 455-483.
65. Lorell, Mark A. and United States Air Force, *Troubled partnership: a history of U.S.-Japan collaboration on the FS-X fighter* (Santa Monica, CA: Rand, 1995).
66. Low, Morris, Nakayama, Shigeru, and Yoshioka, Hitoshi, *Science, technology and society in contemporary Japan* (New York: Cambridge University Press, 1999).
67. Lynn, Leonard H., "The Commercialization of the Transistor Radio in Japan: The Functioning of an Innovation Community," *IEEE Transactions on Engineering Management* 45-3 (1998), 220-229.
68. Lynn, Leonard H., *How Japan innovates: a comparison with the U.S. in the case of oxygen steelmaking* (Boulder, Colo.: Westview Press, 1982).
69. Mackenzie, Donald A., *Inventing accuracy: a historical sociology of nuclear missile guidance* (Cambridge, Mass.: MIT Press, 1990).
70. Mahoney, Michael S., "Finding a History for Software Engineering," *IEEE Annals of the History of Computing* 26-1 (2004), 8-19.
71. Mahoney, Michael S., "The Histories of Computing(s)," *Interdisciplinary Science Reviews* 30-2 (2005), 119-135.
72. Mahoney, Michael S., "The History of Computing in the History of Technology," *Annals of the History of Computing* 10-2 (1988), 113-125.
73. Marcus, Alan I. and Segal, Howard P., *Technology in America: a brief history*, 2nd ed. (Fort Worth: Harcourt Brace College Publishers, 1999).
74. Marx, Karl and Engels, Friedrich, "Machinery in Large-scale Industry," in *Capital, a critique of political economy* (New York: The Modern Library, 1906).
75. McDougall, Walter A., *The heavens and the earth: a political history of the space age* (Baltimore: Johns Hopkins University Press, 1997).
76. McGaw, Judith A., *Most wonderful machine: mechanization and social change in Berkshire paper making, 1801-1885* (Princeton, N.J.: Princeton University Press, 1987).
77. McGaw, Judith A., "Women and the history of American Technology," *Signs* 7(1982), 798-828.
78. McNamara, Dennis L., *Textiles and Industrial Transition in Japan* (Ithaca: Cornell University Press, 1995).
79. Meikle, Jeffrey L., *American plastic: a cultural history* (New Brunswick, N.J.: Rutgers University Press, 1995).
80. Meiksins, Peters, "The Revolt of the Engineers Reconsidered," *Technology and Culture* 29(1988), 219-246.
81. Misa, Thomas J., *Leonardo to the Internet: technology & culture from the Renaissance to the present* (Baltimore, Md.: Johns Hopkins University Press, 2004).
82. Mokyr, Joel, *The lever of riches: technological creativity and economic progress* (New York: Oxford University Press, 1990).

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83. Molella, Arthur, "The First Generation: Usher, Mumford, and Giedion," in Kranzberg, Melvin, Cutcliffe, Stephen H., and Post, Robert C. (eds.), *In context: history and the history of technology: essays in honor of Melvin Kranzberg* (Bethlehem: Lehigh University Press, 1989).
84. Morishima, Michio, *Why has Japan succeeded? western technology and the Japanese ethos* (Cambridge [Cambridgeshire]; New York: Cambridge University Press, 1982).
85. Morris-Suzuki, Tessa, "Sericulture and the Origins of Japanese Industrialization," *Technology and Culture* 33-1 (1992), 101-121.
86. Morris-Suzuki, Tessa, *The technological transformation of Japan: from the seventeenth to the twenty-first century* (Cambridge; New York: Cambridge University Press, 1994).
87. Mumford, Lewis, *Technics and civilization* (New York: Harcourt Brace, 1963).
88. Murata, Junichi, "Creativity of Technology: An Origin of Modernity?" in Misa, Thomas J., Brey, Philip, and Feenberg, Andrew (eds.), *Modernity and technology* (Cambridge, Mass.: MIT Press, 2003).
89. Nakajima, Hideto, "A Categorization of Technology and the History of Japanese Modern Technology," in Umesao, Tadao, Bartholomew, James R., and Shigeharu, Sugita (eds.), *Japanese civilization in the modern world. X, Technology* (Osaka: National Museum of Ethnology, 1998).
90. Nishiyama, Takashi, "Aeronautical Technology for Pilot Safety: Reexamining Deck-landing Aircraft in Great Britain, Japan, and the United States," *Historia Scientiarum* 13-1 (2003), 13-32.
91. Nishiyama, Takashi, "Cross-Disciplinary Technology Transfer in Trans-World War II Japan: The Japanese High-Speed Bullet Train as a Case Study," *Comparative Technology Transfer and Society* 1-3 (2003), 305-325.
92. Noble, David F., *America by design: science, technology, and the rise of corporate capitalism*, 1st ed. (New York: Knopf, 1977).
93. Noble, David F., *Forces of production: a social history of industrial automation*, 1st ed. (New York: Knopf, 1984).
94. Nye, David E., *Consuming power: a social history of American energies* (Cambridge, Mass.: MIT Press, 1998).
95. Nye, David E., *Electrifying America: social meanings of a new technology, 1880-1940* (Cambridge, Mass.: MIT Press, 1990).
96. Odagiri, Hiroyuki and Goto, Akira, *Technology and industrial development in Japan: building capabilities by learning, innovation, and public policy* (Oxford: Clarendon Press, 1996).
97. Oldenziel, Ruth, *Making technology masculine: men, women and modern machines in America, 1870-1945* (Amsterdam: Amsterdam University Press, 1999).
98. Pacey, Arnold, *Technology in world civilization: a thousand-year history* (Cambridge, Mass.: MIT Press, 1990).
99. Peebles, Curtis, *The Corona project: America's first spy satellites* (Annapolis, Md.: Naval Institute Press, 1997).
100. Perrin, Noel, *Giving up the gun: Japan's reversion to the sword, 1543-1879* (Boston: D. R. Godine, 1979).
101. Pursell, Carroll W., *The machine in America: a social history of technology* (Baltimore: Johns Hopkins University Press, 1995).

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(last updated: January 23, 2006)

102. Rosenberg, Nathan, *Exploring the black box: technology, economics, and history* (Cambridge, [England]; New York: Cambridge University Press, 1994).
103. Rosenberg, Richard S., *The social impact of computers*, 3rd ed. (Amsterdam; Boston: Elsevier Academic Press, 2004).
104. Samuels, Richard J., *"Rich nation, strong Army": national security and the technological transformation of Japan* (Ithaca: Cornell University Press, 1994).
105. Saxenian, AnnaLee, *Regional advantage: culture and competition in Silicon Valley and Route 128* (Cambridge, Mass.: Harvard University Press, 1994).
106. Scharff, Virginia, *Taking the wheel: women and the coming of the motor age* (Albuquerque: University of New Mexico Press, 1992).
107. Schatzberg, Eric, "On Attempting to Construct Alternative Narratives," *Technology and Culture* 45-2 (2004), 406-412.
108. Schatzberg, Eric, *Wings of wood, wings of metal: culture and technical choice in American airplane materials, 1914-1945* (Princeton, N.J.: Princeton University Press, 1999).
109. Smith, Merritt Roe, *Harpers Ferry armory and the new technology: the challenge of change* (Ithaca, N.Y.: Cornell University Press, 1977).
110. Smith, Merritt Roe and Marx, Leo, *Does technology drive history? the dilemma of technological determinism* (Cambridge, Mass.: MIT Press, 1994).
111. Smith, Thomas C., *Native sources of Japanese industrialization, 1750-1920* (Berkeley, Calif.: University of California Press, 1988).
112. Staudenmaier, John M., *Technology's storytellers: reweaving the human fabric* (Cambridge, Mass.: Society for the History of Technology and the MIT Press, 1985).
113. Takahashi, Yuzo, "A Network of Tinkerers: The Advent of the Radio and Television Receiver Industry in Japan," *Technology and Culture* 41-3 (2000), 460-484.
114. Tsutsui, William M., *Manufacturing ideology: scientific management in twentieth-century Japan* (Princeton, N.J.: Princeton University Press, 1998).
115. Usher, Abbott Payson, *A history of mechanical inventions* (New York: McGraw-Hill book company, inc., 1929).
116. Wallace, Anthony F. C., *Rockdale the growth of an American village in the early industrial revolution* (New York: Alfred A. Knopf, 1980).
117. Weber, Steve, *The success of open source* (Cambridge, Mass.: Harvard University Press, 2004).
118. White, Lynn Townsend, *Medieval religion and technology: collected essays* (Berkeley: University of California Press, 1978).
119. Williams, Michael R., *A history of computing technology*, 2nd ed. (Los Alamitos, Calif.: IEEE Computer Society Press, 1997).
120. Winner, Langdon, *The whale and the reactor: a search for limits in an age of high technology* (Chicago: University of Chicago Press, 1986).
121. Wise, George, *Willis R. Whitney, General Electric, and the origins of U.S. industrial research* (New York: Columbia University Press, 1985).
122. Yonekura, Seiichiro, *The Japanese iron and steel industry, 1850-1990: continuity and discontinuity* (New York: St Martin's Press, 1994).