

Science and Technology Studies 201, Section 84405
Nanotechnology and Society Companion Reader

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A partial collection of the readings in this course

1. H. Collins and T. Pinch, *Introduction: the technological Golem*.
2. R. P. Feynman, *There's plenty of room at the bottom: An invitation to enter a new field of physics*
3. Ratner and Ratner, *Nanotechnology*, Ch. 3: The Fundamental Science Behind Nanotechnology
4. J. Ulrich, *Follow the Money, Follow the Leaders*
5. S. Cozzens and E. Woodhouse, *Science, Government, and the Politics of Knowledge*
6. G. Cross and R. Szostak, *Technology and American Society: Ch. 4, Origins of Industrialization*
7. M. Crichton, *Introduction: Artificial Evolution in the 21st century*, in Prey
8. Michael Flynn, *Soul of the City*, in *Analog*, February 1989, L 100-105
9. Leo Marx, *Does Improved Technology Mean Progress?*
10. Langdon Winner, *Technology as Forms of Life in The Whale and the Reactor*
11. R. Kline and T. Pinch, *Users as Agents of Technological Change: The Social Construction of the Automobile in the Rural United States*, in *Technology and Culture* 37: 763-795.
12. Langdon Winner, *Do Artifacts Have Politics?* in *The Whale and the Reactor*
13. Michael Crow and Daniel Sariewitz, *Nanotechnology and Societal Transformation*, in *Societal Implications of Nanoscience and Nanotechnology* (Washington, NSF 2001)
14. Langdon Winner, *Testimony to Congress*
15. M. C. Roco, *Broader Societal Issues of Nanotechnology*, in *Journal of Nanoparticle Research* 5 (2003): 181-189.
16. M. C. Roco, *The US National Nanotechnology Initiative After 3 Years*, *Journal of Nanoparticle Research*, 6: 1-10, (2001-2003)
17. David Noble, *Command Performance: A Perspective on Military Enterprise and Technological Change*, in *Military Enterprise and Technological Change* (Cambridge: MIT Press 1987).
18. D. Talbot, *Super Soldiers*, in *MIT Tech Review* Oct 2002, 105(8): 44-50.
19. Charles Perow, *Introduction*, in *Normal Accidents* (Princeton U. Press 1984)
20. Vicki Colvin, *The potential environmental impact of engineered nanomaterials*, *Nature Biotechnology* v21, Oct. 2003, p1166.

21. S. Krinsky and A. Plough, *The Release of Genetically Modified Organisms into the Environment: The Case of Ice Minus*
22. B. Wynne, *Misunderstood Misunderstandings: Social Identities and Public Uptake of Science*, in *Misunderstood Misunderstandings* (Cambridge U. Press 1995)
23. Trevor and Pinch, *The science of the lambs: Chernobyl and the Cumbrian sheepfarmers*, *The Golem at Large*
24. L. Winner, *On Not Hitting the Tar-Baby*
25. E. Drexler, *Engines of Creation: Ch. 2, The Principles of Change*
26. D. Mulhall, *Our Molecular Future: The Singularity*
27. Peter Atkins, *The Future of Matter*, in *The Next Fifty Years*
28. Rodney Brooks, *The Merger of Flesh and Machines*, *The Next Fifty Years*