Reading List
Professors Mark Kieler and Jon Peha
Spring 2001

Module 1: BACKGROUND
Intro:
Little Man Computer, Stuart Madnick
Laudon, Chapter 1
The Computer: CPU, Storage, and Input/Output Devices
Laudon, Chapter 2,
Laudon, pp. 65-77,
The Way Things Work, television sets, David Macaulay, pp. 262-3
Computer Networks: Telecommunications, Internet, and Future Trends
Laudon, Chapters 5 and 6
Policy:
A Primer for Policy Analysis, Stokey & Zeckhauser, excerpts
The Death of Common Sense, Philip Howard, 1995, 57-68

Module 2: ENVIRONMENT
Disposal of Computers
H. S. Matthews, C. Hendrickson, F. McMichael, D. Hart, Disposition and
End-of-Life Options for Products: A Green Design Case Study, CMU
http://www.ce.cmu.edu/GreenDesign/gded-pc-case.pdf
Bill Breen, "Is Recycling Succeeding?", Garbage, 7/93, pp. 36-43
D. Small, R. Dodd, , S. Amagai, T. Strong, "Computer Monitor Recycling:
A Case Study," Proc. Intl Conf on Clean Electronics Products and
Technology, pp. 124-8, 10/95
Sheila D. Davis, “End-Of-Life Consumer Electronics in the San Francisco
B. Glazebrook, C. Beling, “Analysis of Five Residential/ Consumer
Computer Design and the Environment
OTA, Green Products by Design, pp. 35-46
John L. Warren, Keith A. Weitz, "Development of an Integrated Life-
Cycle Cost Assessment Model," Proc. IEEE Intl Symp on
and the Environment, pp. 155-63, 5/94
CMU EPP Project Report, Environmental Labeling of Consumer Products,
pp. 70-80
Policy issues
OTA, Green Products by Design, pp. 10, 12-20, 93-105
International Comparison of Product end-of-Life Scenarios and
Module 3: DEPENDENCE AND DEPENDABILITY

Dependence on Computers
- "Set Phasers on Stun," Steven Casey, pp. 13-20
- "When the Computer Fails," Popular Science, 9/90

Dependability through Redundancy
- "Safety in Numbers," Byte, 8/91, Victor Nelson

Software Dependability
- "The Risks of Software," Scientific American, 11/92

Computers and Computer Operators

Managing Risk
- "Risk Analysis and Management," Granger Morgan (EPP), Scientific American 7/93
- "Choosing and Manufacturing Technology Based Risk," Granger Morgan (EPP), IEEE Spectrum, 12/81

Policy Issues:
- "Liability for Defective Electronic Information," Pamela Samuelson, Communications of the ACM, 1/93
- "Regulatory Requirements for Software Safety: Policy Issues," Peter Neumann, Compass-89, p. 8
- "Panel: Should Government Regulate Medical Software?" Compass-90, pp. 189-191
- "Are Certification and Accreditation Useful Concepts for Safety Critical Systems?" Compass-90, p. 192

Ethics
- Laudon, pp. 268-72

Module 4: INFORMATION

To be handed out.