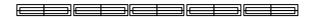
Systems Design, Implementation,	-
Maintenance, and Review	
Security, Privacy, and Ethics	
Occurry, I invacy, and Etines	
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01 40044	
Chapters 13 & 14	
Systems Design	
Gysterns Design	
•	
Systems Design	
eyeteme z ee.g	
"How will the information system do	
what it must do to obtain a solution to a	
problem?"	
Chapter 13 Principles of Information Systems, Slide 3 Fifth Edition	

Logical Design	
<ul><li>Describes what the system must do</li><li>"Functional requirements"</li></ul>	
• Functional requirements	
Chapter 13 Principles of Information Systems, Side 4	
Fifth Edition	
Physical Design	
<ul> <li>Describes the technology and other components needed to complete the</li> </ul>	
logical design	
Chapter 13 Principles of Information Systems, Side 5 Fifth Edition	
Hardware backup	
Disaster recovery plans	
<ul><li>Hot site</li><li>Cold site</li></ul>	
Chapter 13 Principles of Information Systems, Side 6 Fifth Edition	



### Software & Database Backup

- Selective backups
- Incremental backups
- Image log

Chapter 13

Principles of Information Systems, Fifth Edition

Slide 7

#### FIGURE 13.3

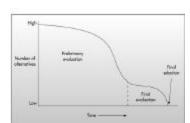
A Typical Table of Contents for a Request for Proposal

Johnson & Rarie, Nr.
Systems Investigation Report

Contents

CONSTRUCT (with company name and cented person)
9885 DESCRIPTION of the COMMINE SYSTEM
SUMMARY of COMMITTER PLATED NIEDS and/or PROBLEMS
SUMMARY of COMMITTER PLATED NIEDS and/or PROBLEMS
SUMMARY of COMMITTER PLATED NIEDS and/or PROBLEMS
SUBMITTER OF the POWERT
DESCRIPTION OF WHITE PLATED NIEDS
HARDWARE REQUESTMENTS
PROCEDURES 6 BE DEVELORED
TRAINING REQUESTMENTS
ROUMMITTERATIONS REQUESTMENTS
ROUMMITTERATIONS REQUESTMENTS
PROCEDURES 6 BE DEVELORED
TRAINING REQUESTMENTS
PROMITTERATIONS REPORTS
PRO







# **Evaluation Techniques**

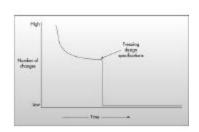
- Group consensus
- Benchmark tests
- Cost/benefit analysis
- Point evaluation

Chapter 13

Principles of Information Systems, Fifth Edition

Slide 10

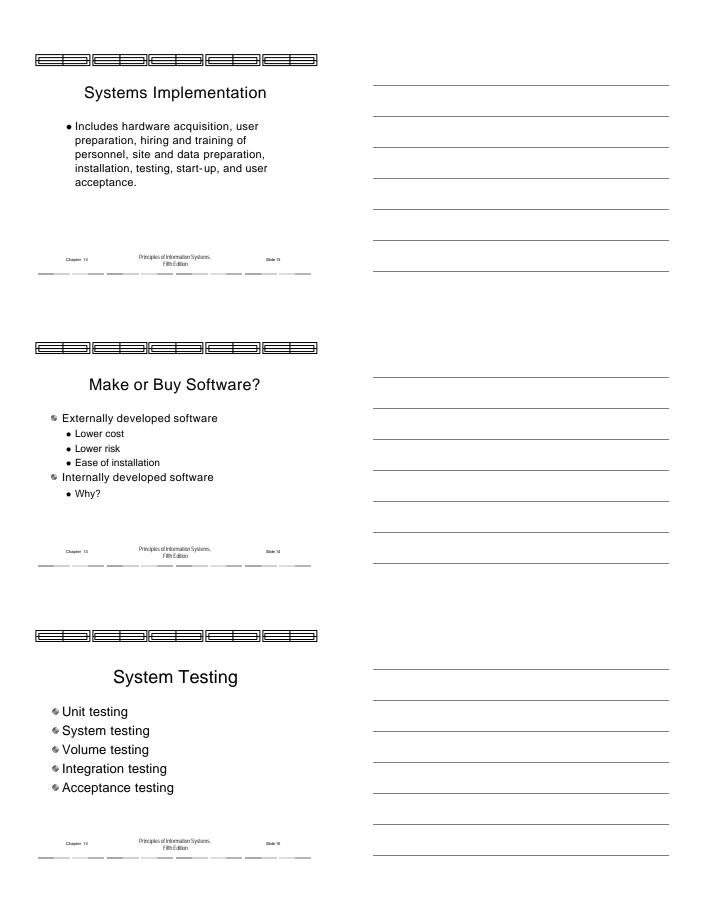
Freezing Design Specifications



Avoid "scope creep"

Systems Implementation

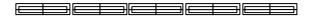




Systems Maintenance

Principles of Information Systems, Fifth Edition

# Systems Maintenance Checking, changing, and enhancing the system to make it more useful in achieving user and organizational goals.



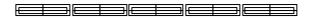
### Reasons for Maintenance

- Changes in business processes
- Requests from stakeholders, users, or managers
- Errors in the program
- Technical & hardware problems
- Corporate mergers & acquisitions
- Government regulations
- Changes in the operating system or hardware

Chapter 13 Principi

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Slide 19



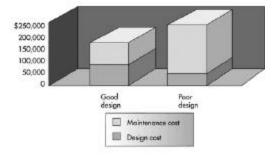
# Types of maintenance

- Slipstream upgrade
- Patch
- Release
- Version

Chapter 1

Principles of Information Systems, Fifth Edition

Slide 20



# Systems Review Systems Review Final step in SDLC Compares results with objectives Problems & opportunities trigger new SDLC process May be event-driven • Significant vs. Continuous and/or time-driven Principles of Information Systems, Fifth Edition Factors to Consider During Systems Review Mission Training Goals Costs Hardware/ software Complexity Reliability Database

Telecommunications

IS personnel

Control

Efficiency

Principles of Information Systems, Fifth Edition

Response time

Documentation

# Computer Waste & Mistakes



# **Computer Waste**

- Discard technology
- Unused systems
- Personal use of corporate time & technology

Chapter 13

Principles of Information Systems, Fifth Edition

Slide 26

# Computer Crime



Computers as Tools to	
Computers as Tools to Commit Crime	
Social engineering	
<ul> <li>Dumpster diving</li> </ul>	-
Password sniffing	
<ul><li>Help on the Web</li></ul>	
Chapter 13 Principles of Information Systems, Slide 28	
Fifth Edition	
Computers as Objects of	
Crime	
<ul> <li>Illegal access and use</li> </ul>	
Hackers vs. crackers	
Script bunnies	
Chapter 13 Principles of Information Systems, Side 29 Fifth Edition	
Data Alteration & Destruction	-
Data Alteration & Destruction	
<ul><li>Virus</li></ul>	
<ul> <li>Application virus</li> </ul>	
System virus	
Macro virus	
• Worm	
• Logic bomb	
<ul><li>Virus hoaxes</li></ul>	
Chapter 13 Principles of Information Systems, Slide 30	

Com	puters as Objec	ets of	∄		
Information					
<ul><li>Software</li></ul>	Software & Internet piracy				
<ul> <li>Computer-related scams</li> </ul>					
Chapter 13	Principles of Information Systems, Fifth Edition	Slide 31			
				-	

The Work Environment

## **Health Concerns**

- Repetitive stress injury (RSI)
- Carpal tunnel syndrome (CTS)
- Ergonomics

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