Chapter 8

Maintenance

1. Introduction
2. Types of Maintenance
3. Performing the M
4. Concepts that will help M (SCM, RE, …)

I. Intro

M: refers to changes that are made after the software has been delivered to customer.

Reasons:
- change to a different Environment (o.s., machine…) (adaptive M)  
- fix bugs / faults (corrective M)  
- additional requirement / fine tuning (perfective M)  
- to prevent future problems (Y2K) (preventive M)

Most people don’t do that

Q: Why is the M so expensive?
- No SE technology has been used
- No documentation
- Assess the impact of change
- No M is thought when developing

Solutions:
1. close SE technology to develop ⇒ more doc
2. Think about maintenance when developing
   Ex: put all modules that may change under one subsystem
3. Basic Research about M
   ⇒ Not many books
4. Tools for M (SCM, RE. Debugger, RT)

2. —

3. Performing the M

Formal Technical review: Inspection:
5 roles needed to perform inspection:

1. moderator
2. Author – create the change
3. Scribe – recorder
4. reviewer – inspector
5. reader

At least 3 people
1. 3 moderator / scribe
2. 5 author / reader
4. reviewer

4.