

Chapter 7

Model-Based software Architectures

Notes taken from Walker Royce's
textbook on Software Project
Management



Introductory Comments

- Software Architecture – essential to building software systems, as is ALL architecture.
 - When we speak about Architecture (not software)
 - can apply stable laws of physics and mathematics.
 - Software Architecture
 - not governed by complete laws of math;
 - no irrefutable first principles.
 - At best, many heuristics and vague guidelines
- Goodness measurable only in certain situations

Introductory Comments

- So, what do practitioners do??
- With no established theory, software architects must rely on experiences and trial and error in formulating software architectures.
- We recognize that the transition to an iterative process, where the early stages emphasize and promote architecture through evolution through prototyping and demonstration has proven to be the way to proceed.

