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UNIT 1 Software & Software Engineering (第1章)

- 1. How does software differ from the artifacts produced by other engineering disciplines?
- 2. How do software characteristics differ from hardware characteristics?
- 3. What is wrong with the notion that computer software does not need to evolve over time?
- 4. What factors need to be considered when selecting a process model for a project?
- 5. How Polya's problem solving principles describe the essence of engineering practice?

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UNIT 2 Requirements Engineering — Understanding Requirements(第 6 章)

- 1. What are the six steps for requirements engineering?
- 2. How do requirement engineers collaborate with stakeholders?
- 3. Why are nonfunctional requirements important to the requirements engineer?
- 4. What work products result from the requirements engineering process?

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UNIT 3 Requirements Modeling — Building Analysis Model(第7章)

- 1. Which models can be used in requirements modeling, and what role does each type of model play?
- 2. Which UML diagrams are useful in scenario-based modeling?
- 3. What questions should be asked to help refine a preliminary use case?
- 4. What characteristics should be considered when identifying potential classes?
- 5. What are the steps needed to build a behavioral model?

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UNIT 4 Design & Architecture(第 8、9 章)

- 1. How effective modular design is achieved through functional independence of the individual modules?
- 2. What is the principle of information hiding as it applies to software design?
- 3. What is design refactoring?
- 4. Why is architecture important?
- 5. What are the elements that make up a software architectural style?
- 6. What is an archetype?

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UNIT 5 Component-Level Design & UI Design(第 10、11 章)

- 1. How does the object-oriented view of component-level design differ from the traditional view?
- 2. What are the steps used to complete the component-level design for a software development project?
- 3. What principles should be followed when building any user interface?
- 4. What framework activities need to be completed in the development process of user interface evolution (or spiral)?
- 5. What things you need to do in user experience analysis if you seek to "understand the problem before you attempt to design a solution."?
- 6. How to evaluate user interface design before building a working computer prototype?

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UNIT 6 Software Testing(第 15、16 章)

- 1. How does software verification differ from validation?
- 2. What is the difference between black-box testing and white-box testing?
- 3. What is object-oriented unit testing?
- 4. What are the attributes of a good software test?
- 5. Why is regression testing an important part of any integration testing procedure?
- 6. What are the key differences between validation testing goals and acceptance testing goals?

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UNIT 7 Software Configuration Management (第 17 章)

- 1. What information will make up the software configuration?
- 2. What are the steps in the change control process of a project?
- 3. What is a software configuration audit?
- 4. What is impact management?

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UNIT 8 Software Process & Process Model(第 2、3、4 章)

- 1. How does software team choose the task set for a particular project?
- 2. Why the spiral model is the best approach to software development in a modern context?
- 3. What are the key issues stressed by an agile philosophy?
- 4. What are the tradeoffs proposed by the "Agile Manifesto"?
- 5. What are the three questions that should be answered by each team member at the daily Scrum meeting?
- 6. Why should requirements engineering be an iterative process?
- 7. Why is it important to test a protype using the stakeholders?
- 8. What are the types of maintenance activities?

UNIT 9 Project Management & Software Plan (第 5、19、20 章)

- 1. What are four P's of effective project management?
- 2. What are the characteristics of software engineers should posess?
- 3. What are the key attributes of an effective software teams?
- 4. What are the environment characteristics that can be considered toxic to software teams? How to avoid it?
- 5. How can agile teams avoid toxicity that affects the context of project?
- 6. How is software scope defined?
- 7. What are the questions that need to be answered using the W^5H^2 ?