API 571 Study Guide
Practice Questions

*This following is a study aid that you can use to learn the details and content of **API RP-571, Damage Mechanisms Affecting Fixed Equipment in the Refining Industry.** There will be about 4-7 questions from this document on your API exam. We do not spend time in class discussing this publication. So it is important that you become familiar with this content in your personal study sessions.*

The questions in this study aid are by damage mechanism. An answer key is given at the end of the study guide. We suggest you read about the damage mechanism a couple of times before answer the questions. We suggest that you do this study guide at least twice prior to the API exam.

Brittle Fracture (4.2.7)

1. A brittle fracture:
   - a) is caused by stress cycles.
   - b) is always the result of thermal stresses.
   - c) grow very rapidly with minimum deformation prior to failure.
   - d) grows slowly and is dependent on time and stress.

2. Which of the following materials is ***least*** affected by brittle fracture?
   - a) Carbon steel
   - b) Chromes
   - c) 300 series stainless steel
   - d) 400 series stainless steel
   - e) All stainless steels

3. ASME Section VIII had few limitations concerning brittle fracture prior to:
   - a) 1955.
   - b) 1962.
   - c) 1973.
   - d) 1987.

4. What test is used to determine a material's toughness?
   - a) Charpy impact test
   - b) Guided bend test
   - c) Metallography
   - d) Tension test
   - e) Physical fitness test

5. Which of the following is ***not*** a critical factor that contributes to a brittle fracture?
   - a) The material's fracture toughness
   - b) Maximum operating temperature
   - c) Stress concentration at a flaw
   - d) Magnitude of the residual stresses

6. Most brittle failures occur:
   - a) below the impact transition temperature.
   - b) on thinner materials.
   - c) on "clean" steel.
   - d) while in operation at elevated temperatures.

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Api 571 Study Guide:

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