



Free Questions for *API-571* by *dumpshq*

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Question 1

Question Type: FillInTheBlank

Ways to prevent thermal fatigue include reducing stress concentrators by making _____ transitions at places where the wall thickness changes.

Answer:

Question 2

Question Type: MultipleChoice

What treatment is used to prevent boiler feed water corrosion?

Options:

A- Oxide scavengers are added to process

- B- Oxygen scavengers are added to process
- C- Sulfide scavengers are added to process
- D- Sulfur scavengers are added to process

Answer:

B

Question 3

Question Type: MultipleChoice

Protection in a boiler from boiler feed water corrosion is accomplished by:

Options:

- A- Injecting chlorines to kill microbiological bugs.
- B- Injecting caustic to lower the ph to < 4.0.
- C- Lowering solids content in boiler feed water to less than 50 ppm.
- D- Maintaining a protective corrosion layer of magnetite (Fe_3O_4).

Answer:

D

Question 4

Question Type: MultipleChoice

Corrosion from oxygen in boiler feed water usually creates:

Options:

A- Uniform corrosion.

B- Isolated pitting.

C- Intergranular cracking.

D- Transgranular cracking.

E- Hard and brittle zones.

Answer:

B

Question 5

Question Type: MultipleChoice

Sulfidation of iron-based alloys usually begins at about:

Options:

A- 150 oF.

B- 250 oF.

C- 500 oF.

D- 1100 oF.

Answer:

C

Question 6

Question Type: MultipleChoice

Which of the following is not a major factor associated with corrosion by sulfidation?

Options:

- A- Alloy composition
- B- Operating pressure
- C- Operating temperature
- D- Sulfur content

Answer:

B

Question 7

Question Type: MultipleChoice

Mechanical fatigue can cause cracks that initiate from the surface and often form a:

Options:

- A- Clam shell appearance.
- B- Snail shell appearance.
- C- Turtle shell appearance.
- D- Shell Oil shell appearance.
- E- Taco shell appearance.

Answer:

A

Question 8

Question Type: MultipleChoice

Inspecting for high-cycle fatigue can be difficult since:

Options:

- A- The cracks are extremely tight.
- B- Predicting the location of cracking is difficult.
- C- Once the crack begins, only a few cycles are needed for the crack to lead to failure.
- D- Often the equipment is vibrating making non-destructive evaluations difficult.

Answer:

C

Question 9

Question Type: MultipleChoice

The endurance limit is usually about:

Options:

- A- 10-20% of a material's ultimate tensile strength.
- B- 40-50% of a material's ultimate tensile strength
- C- 10-20% of a material's yield strength.

D- 40-50% of a material's yield strength.

E- Half way up the ladder of a 150' column (tower).

Answer:

B

Question 10

Question Type: MultipleChoice

Which material does not have an endurance limit?

Options:

A- Non-normalized carbon steel

B- Normalized carbon steel

C- Stainless steel

D- Titanium

Answer:

C

Question 11

Question Type: MultipleChoice

Fatigue will not occur in carbon steel if stresses are below the:

Options:

A- Transition limit.

B- Endurance limit.

C- Hardening limit.

D- Speed limit.

Answer:

B

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