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reviewer4@nptel.iitm.ac.in ▼

Courses » Weldability of Metals

Announcements

Course

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Unit 4 - Week 3

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Course outline

How to access
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Week 1

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Week 3

- Weldability Consideration
- Weldability of Carbon and Alloy Steel-I
- Weldability of Carbon and Alloy Steel-II
- Weldability of Carbon and Alloy Steel-III
- Weldability of Low Carbon Steel and Mild Steel

Quiz :
Assignment 3

Solution for
Assignment No.
3

Week 4

Week 5

Assignment 3

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-03-20, 23:59 IST.**

1) Autogenous TIG welding will produce weld zone by

1 point

- Plastic deformation of faying surfaces
- Melting and solidification of faying surfaces
- Melting and solidification of filler wire
- Both a and b

No, the answer is incorrect.

Score: 0

Accepted Answers:

Melting and solidification of faying surfaces

2) If metallic systems A and B are having solidification temperature range (STR) of 25°C and 150°C respectively, then

1 point

- A will have higher solidification cracking tendency
- B will have higher solidification cracking tendency
- Both will have similar solidification cracking tendency
- B has better weldability than A considering solidification cracking tendency

No, the answer is incorrect.

Score: 0

Accepted Answers:

B will have higher solidification cracking tendency

3) High affinity to atmospheric gases during fusion welding may result in

1 point

- Formation of oxides/nitrides
- Formation of inclusions in the fusion zone
- High amount of slag formation

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- DBTT is above room temperature
- DBTT is at room temperature
- DBTT is much below the room temperature
- DBTT is above the recrystallization temperature

No, the answer is incorrect.

Score: 0

Accepted Answers:

DBTT is much below the room temperature

5) Hydrogen Induced Cracking (HIC) tendency will be lowest if a steel weld joint primarily consists

1 point

- Martensite
- Pearlite
- Ferrite
- Bainite

No, the answer is incorrect.

Score: 0

Accepted Answers:

Ferrite

6) In general, the weld metal of fusion welded joint after welding will experience

1 point

- Tensile residual stress
- Compressive residual stress
- No residual stress
- Shear residual stress

No, the answer is incorrect.

Score: 0

Accepted Answers:

Tensile residual stress

7) The steel having lowest amount of oxygen content is

1 point

- Rimmed steel
- Capped steel
- Killed steel
- Semi-killed steel

No, the answer is incorrect.

Score: 0

Accepted Answers:

Killed steel

8) With reduction in carbon content, hardness of martensitic structure will

1 point

- Increase
- Increase first then decrease
- Decrease
- Decrease first then increase

No, the answer is incorrect.

Score: 0

Accepted Answers:

Decrease

9) With increase in carbon equivalent, the under bead cracking tendency will

1 point

- Decrease
- Increase
- First decrease then increase
- Will not be affected

No, the answer is incorrect.

Score: 0

Accepted Answers:

Increase

10) Pre-heat and post heat treatments will be required during welding of mild steel plates having

1 point

- Carbon content less than 0.2%
- 35 mm thick plates
- Restraint free welding
- 0.5% Mn content

No, the answer is incorrect.

Score: 0

Accepted Answers:

35 mm thick plates

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