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NPTEL

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Courses » Welding of Advanced High Strength Steels for Automotive Applications

Announcements

Course

Ask a Question

Progress

FAQ



Unit 5 - Week 3

Course outline

How to access the portal

Pre-requisite Assignment

Week 1

Week 2

Week 3

- Quiz : Assignment 3
- Introduction to Laser Beam Welding - Part - I
- Introduction to Laser Beam Welding - Part - II
- Principles of Gas Metal Arc Welding - Part - I
- Principles of Gas Metal Arc Welding - Part - II
- Welding Metallurgy of Advanced High Strength Steels - Part - I
- Week 3 Feedback : Welding of Advanced High Strength Steels for Automotive Applications

Week 4

LECTURE MATERIALS

Assignment 3

The due date for submitting this assignment has passed. **Due on 2018-09-19, 23:59 IST**
As per our records you have not submitted this assignment.

1) Which mode of laser beam welding is preferred to achieve increased depth of penetration ? **1 point**

- conduction
- bead-on-plate
- key-hole
- overlap

No, the answer is incorrect.

Score: 0

Accepted Answers:

key-hole

2) The shape of the weld pool in laser beam seam welding is generally **1 point**

- circular
- tear drop
- elliptical
- square

No, the answer is incorrect.

Score: 0

Accepted Answers:

tear drop

3) Recoil pressure in the key-hole of laser beam welding is due to **1 point**

- coiling of work piece
- gravity
- vaporisation of melt
- reflection of photons

No, the answer is incorrect.

Score: 0

Accepted Answers:

vaporisation of melt

4) Which (one) of the following control(s) the stability of the key-hole during laser welding of galvanised steels in over-lap configuration ? **1 point**

- gravity
- surface tension
- vapour pressure
- plasma drag

VIDEO
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No, the answer is incorrect.

Score: 0

Accepted Answers:

vapour pressure

5) Process efficiency of arc welding process is determined by

1 point

- welding power source
- heat transfer from arc
- weld metal composition
- joint design

No, the answer is incorrect.

Score: 0

Accepted Answers:

heat transfer from arc

6) Droplet detachment in consumable electrode welding is always opposed by

1 point

- gravity
- surface tension
- vapour jet forces
- plasma jet forces

No, the answer is incorrect.

Score: 0

Accepted Answers:

surface tension

vapour jet forces

7) When stick out length increases, melting rate of consumable in GMAW

1 point

- decreases
- do not change
- increases
- decreases exponentially

No, the answer is incorrect.

Score: 0

Accepted Answers:

increases

8) When the welding current is increases above spray transition current in GMAW,

1 point

- droplet transfer occurs mainly by gravitational force
- drop spray transfer occurs
- short-circuiting occurs
- severe spatter occurs

No, the answer is incorrect.

Score: 0

Accepted Answers:

drop spray transfer occurs

9) In cold metal transfer welding, primary metal transfer mode is

1 point

- short-circuiting
- globular
- drop transfer
- jetting spray

No, the answer is incorrect.

Score: 0

Accepted Answers:



short-circuiting

10 In pulsed GMAW,

1 point

- drop transfer is promoted
- heat input is increased
- mean current is increased
- jet-ting spray occurs

No, the answer is incorrect.

Score: 0

Accepted Answers:

drop transfer is promoted



◀ Previous Page

End ▶

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