

X

NPTEL

reviewer2@nptel.iitm.ac.in ▼

Courses » Theory of Production Processes

Announcements Course Ask a Question Progress Mentor

Unit 12 - Week 11

Course outline

[How to access the portal](#)[Week 1](#)[Week 2](#)[Week 3](#)[Week 4](#)[Week 5](#)[Week 6](#)[Week 7](#)[Week 8](#)[Week 9](#)[Week 10](#)[Week 11](#) Lecture 51: Residual stresses in welding Lecture 52: Methods of controlling residual stresses in welding Lecture 53: Welding

Assignment 11

The due date for submitting this assignment has passed. **Due on 2018-04-11, 23:59 IST.**

Submitted assignment

1) Of the following statements, which one is incorrect with regard to Residual Stresses in welded components **1 point**

- They are elastic in nature
- They are not elastic in nature
- They represent storage of energy within the body
- They must be self-balanced within the structure

No, the answer is incorrect.

Score: 0

Accepted Answers:

They are not elastic in nature

2) Residual stresses are of following types **1 point**

- Thermal stresses and joint stresses
- Mechanical stresses and prestresses
- Macro stresses and micro stresses
- Bending and compressive stresses

No, the answer is incorrect.

Score: 0

Accepted Answers:

Macro stresses and micro stresses

3) Restraint to thermal expansion and contraction offered by other parts of the structure is termed as **1 point**

- Mechanical stresses
- Metallurgical stresses

© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -



A project of



NPTEL

National Programme on
Technology Enhanced Learning

In association with



Funded by

postweld heat
treatment of
weldments

Quiz :
Assignment 11

Solution of
assignment 11

Week 12

DOWNLOAD
VIDEOS

- 4) Which of the following statement is not correct regarding thermal stresses in component **1 point**
- Can cause distortion of workpieces when welded
 - Can cause distortion of workpieces when getting machined after welding
 - May affect ductility
 - Does not affect the fatigue and creep strength
- No, the answer is incorrect.**
Score: 0
- Accepted Answers:**
Does not affect the fatigue and creep strength
- 5) Which of the following is not a method of measurement of residual stresses in welded component **1 point**
- Ultrasonic method
 - Brittle coat method
 - Photostress method
 - Strain gauge method
- No, the answer is incorrect.**
Score: 0
- Accepted Answers:**
Ultrasonic method
- 6) During welding process (multipass welding), peening method for stress relieving purpose should not be applied on **1 point**
- First layer
 - Last layer
 - Intermediate layers
 - First and last layer
- No, the answer is incorrect.**
Score: 0
- Accepted Answers:**
First and last layer
- 7) Which one of the following stress relieving method uses oscillating or rotating wave generator coupled to the part **1 point**
- Peening method
 - Thermal treatment method
 - Vibratory self relief method
 - Flame method
- No, the answer is incorrect.**
Score: 0
- Accepted Answers:**
Vibratory self relief method
- 8) Which of the following parameter increases distortion? **1 point**
- Deeper penetration
 - Use of single pass as compared to multiple pass

- Lower value of modulus of elasticity
- Lower value of coefficient of thermal expansion

No, the answer is incorrect.

Score: 0

Accepted Answers:

Lower value of modulus of elasticity

9) For controlling distortion in welds, direction of welding should be **1 point**

- towards the point of restraint
- Away from point of maximum freedom
- towards restraint and away from point of maximum freedom
- away from point of restraint and towards point of maximum freedom

No, the answer is incorrect.

Score: 0

Accepted Answers:

away from point of restraint and towards point of maximum freedom

10) Preheating is necessary in Aluminium because of its **1 point**

- High conductivity
- High melting point
- Low melting point
- Light weight

No, the answer is incorrect.

Score: 0

Accepted Answers:

High conductivity

Previous Page

End