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Courses » Theory of Production Processes

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Unit 8 - Week 7

Course outline

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- Lecture 31: Rolling process: Classification, Hot and cold rolling
- Lecture 32: Analysis of rolling operation: Forces and geometrical relationships
- Lecture 33: Introduction to forging Process: Classification and equipments

Assignment 7

The due date for submitting this assignment has passed. **Due on 2018-03-14, 23:59 IST.**

Submitted assignment

1) If the width of sheet is assumed to be constant before and after rolling process, then the velocity of sheet **1 point**

- Decreases from entrance to exit
- Increases from entrance to exit
- Remains same from entrance to exit
- None of these

No, the answer is incorrect.**Score: 0****Accepted Answers:***Increases from entrance to exit*2) The operation to reduce the cross-section of the work with increase in length is called as **1 point**

- Edging
- Fullering
- Drawing out
- Bending

No, the answer is incorrect.**Score: 0****Accepted Answers:***Drawing out*3) Gathering the metal at its location is called as **1 point**

- Fullering
- Drawing out

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- Quiz : Assignment 7
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4) The operation to reduce the cross-section of the portion of a stock is called as **1 point**

- Fullering
- Bending
- Spinning
- Edging

No, the answer is incorrect.

Score: 0

Accepted Answers:

Fullering

5) In rolling operation, roll strip contact length is evaluated as **1 point**
Where D_h = change in thickness of the plate & R = roll radius

- $D_h \times R$
- $[D_h \times R]^{1/2}$
- D_h / R
- $[D_h \times R]^{1/3}$

No, the answer is incorrect.

Score: 0

Accepted Answers:

$[D_h \times R]^{1/2}$

6) In rolling operation, the maximum change in thickness of the plate ($D_{h_{max}}$) is evaluated as **1 point**
Where m = coefficient of friction between roll and plate & R = roll radius

- m^2 / R
- $m^2 + R$
- $m^2 - R$
- $m^2 \times R$

No, the answer is incorrect.

Score: 0

Accepted Answers:

$m^2 \times R$

7) In rolling process, the state of stress of the material undergoing deformation is **1 point**

- Pure compression
- Pure shear
- Compression and shear
- Tension and shear

No, the answer is incorrect.

Score: 0

Accepted Answers:

Pure compression

8) Which of the following statement is/are correct for closed die forging? **1 point**

- (i) Closed die forging is also known as impression die forging.
- (ii) In closed die forging blocking means work piece is at completely finishing stage.

- Only i
- Only ii
- Both i and ii
- None of these

No, the answer is incorrect.

Score: 0

Accepted Answers:

Only i

9) A steel plate 20 mm thick is to be rolled to 14 mm in a four high rolling mill having roll diameter 480 mm. If yield stress is 120 M Pa, then the angle of bite is 1 point

- 9
- 21.2
- 15.3
- 24.4

No, the answer is incorrect.

Score: 0

Accepted Answers:

9

10) A steel plate 20 mm thick is to be rolled to 14 mm in a four high rolling mill having roll diameter 480 mm. If the given reduction is the maximum reduction possible, then the coefficient of friction is 1 point

- 0.158
- 0.312
- 0.426
- 0.025

No, the answer is incorrect.

Score: 0

Accepted Answers:

0.158

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