Course outline

Week 1 - Basics of

casting process

Rate of solidification

Week 4 - Estimation of solidification time with

Week 5 - Machining

Introduction of Machining

Review of Basic Machining

Estimation of Cutting Ratio

Merchant's Force Analysis

Merchant theory (Cutting

Merchant Theory (Force

of Chip Formation

and Shear Angle

Forces Analysis)

Analysis) Part-2

Cutting

Lee Shaffer's Solution

Ouiz: Assignment 5

Assignment 5 solution

Manufacturing Process

Week 6 - Cutting tool life

Week 7 - Introduction to Micro-Systems Fabrication

Week 8 - Abrasive water jet machining and Ultrasonic

Week 9 - Introduction to

Machining Process

Electrochemical Machining

Week 10 - Electro-discharge

Week 11 - Laser Beam and Electron Beam Machining

Week 12 - Metal Forming

For Week 05

estimation

Technology

Machining

Processes

Processes

Text Transcripts

DOWNLOAD VIDEOS

Milling

Drilling

Score: 0

Extrusion

0.66

0.11

0.33

Score: 0

0.66

01

Extrusion

Accepted Answers:

No, the answer is incorrect.

No, the answer is incorrect.

Accepted Answers:

10) What will be the coefficient of friction in machining when F_T = 400 N, F_C = 1200 N, α =15 °.

Technology I and II: Feedback

Specific Energy Model for

 Modeling of Heat Generation and Cutting Tool Temperature

Processes and the Mechanics

Manufacturing Processes

Week 2 - Introduction to

Week 3 - Gating Systems and

different conditions and Riser

course work?

Week 0

design

Processes

Processes

How does an NPTEL online





Announcements

About the Course

Ask a Question

Progress Mentor

1 point

NPTEL » Manufacturing Process Technology I and II

Unit 7 - Week 5 - Machining Processes

As per our record	Submitting this assignment has passed. Due on 2020-03-04, 23:5
	s you have not submitted this assignment.
Assignment 5	and the state of the state and dispetally are simples and state by the state of the trace of the state of the
	ne surface obtained when generatrix and directrix are circular and straight line respectively in tracing process?
O Plain	
Surface of regStraight line	volution
O Cylindrical	
No, the answer is	incorrect.
Score: 0 Accepted Answer	s:
Cylindrical	
2) Which of the f	ollowing is not true for shaping process?
Cutting tool is	s provided reciprocating motion.
O Workpiece is	fed parallel to the cutting direction.
	ermittent cutting.
All of the abo	
No, the answer is Score: 0	
Accepted Answers Workpiece is fed	s: parallel to the cutting direction.
Which of the f	ollowing is correct for up milling?
	tends to lift up the workpiece.
Cutting and for	isposal. eed direction are same.
Less power is	
No, the answer is	
Score: 0 Accepted Answer	
-	ds to lift up the workpiece.
4) Which of the fo	ollowing is correct for down milling?
Tool wear is f	faster.
	starts at maximum and decreases.
 Surface finish 	obtained is not good.
O More power i	s required.
No, the answer is Score: 0	incorrect.
Accepted Answer	
Width of chip star	ts at maximum and decreases.
5) Which of the f	ollowing is the correct expression for relation between rake angle (α), shear angle (Φ), and cutting ratio (r)?
5) Which of the fo	
	α/(1+rSin α)
tan Φ= rCos (tan Φ= (1-rSi tan Φ= rCos (α/(1+rSin α) n α)/ rCos α α/(1-rSin α)
tan Φ= rCos o tan Φ= (1-rSi tan Φ= rCos o tan Φ= (1+rSi	α/(1+rSin α) n α)/ rCos α α/(1-rSin α) in α)/ rCos α
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tan Φ= rCos α tan Φ= (1-rSi tan Φ= rCos α tan Φ= (1+rS) No, the answer is Score: 0 Accepted Answer tan Φ= rCos α/(1- 6) In an orthogon	α/(1+rSin α) n α)/ rCos α α/(1-rSin α) in α)/ rCos α incorrect. s: rrSin α) nal cutting operation, the tool has a rake angle of 15°. The chip thickness before the cut is 0.30 mm, and the cut yields a
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