

NPTEL National Programme on Technology Enhanced Learning



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Week 7: Spray theory	4) One milliliter of liquid droplet breaks into equal size of 10micron drops. What is the minimum amount of energy required to perform this atomization process?	1 point
Week 8: Spray theory	5.2 mJ	
Week 9:	43.2 mJ	
Practical	68.4 mJ	
aspects of atomizer	100.6 mJ	
fabrication and manufacturing	No, the answer is incorrect. Score: 0	
Week 10: Multiphase flow	Accepted Answers: 43.2 mJ	
models of sprays	5) One milliliter of liquid droplet breaks into multiple drops of different size. What is the mean surface area if D_{32} of spray is 50 micron?	1 poi
Week 11: Multiphase flow	0.01 m ²	
models of sprays	0.02 m ²	
-1-191	0.03 m ²	
Week 12: Spray evaporation and	0.04 m ²	
combustion	No, the answer is incorrect. Score: 0	
DOWNLOAD VIDEOS	Accepted Answers:	
	0.02 m^2	
	6) In the bifurcation of the work output from a spray nozzle, the major constituent of energy lies	1 point
	to generating kinetic energy of drops	
	to break the interfacial energy	
	to heat the working liquid	
	in equal distribution of above all	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: to generating kinetic energy of drops	
	7) The tangential inlet in a simplex pressure swirl atomizer is to	1 point
	transform K.E to swirl energy	
	increase pressure drop in the inlet	
	create unsteady flow inside the swirl chamber	
	none of the above	
	No, the answer is incorrect. Score: 0	
	Accepted Answers: transform K.E to swirl energy	
	8) Which atomizer have high turn down ratio	1 point
	solid cone simplex nozzle	
	spill return nozzle	
	plane orifice nozzle	

fan spray nozzle		
No, the answer is incorrect. Score: 0		
Accepted Answers: spill return nozzle		
9) In the simplex pressure swirl atomizer, the liquid surface tension increases by two fold then the flow rate for the same supp pressure.		point
increases		显
decreases		<u></u>
remains unaltered		
become double		<u></u>
No, the answer is incorrect. Score: 0		
Accepted Answers: remains unaltered		
10Diesel injector exhibits	1	point
primary breakup only		
secondary breakup only		
both primary and secondary breakup		
none of the above		
No, the answer is incorrect. Score: 0		
Accepted Answers: both primary and secondary breakup		
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