

Lecture 2.15

2.8 Simple numerical on vapor compression cycle.

Refrigeration & Air Conditioning

Agenda

- 2.8 Simple numerical on vapor compression cycle.

2.8 Simple numerical on vapor - Part 1

- VCRS numericals require enthalpy from tables.
- Detailed explanation of the concept.
- Relevant theory and practical example.

2.8 Simple numerical on vapor - Part 2

- Determine h_1 , h_2 , h_3 , h_4 .
- Detailed explanation of the concept.
- Relevant theory and practical example.

2.8 Simple numerical on vapor - Part 3

- $h_3 = h_4$ for throttling.
- Detailed explanation of the concept.
- Relevant theory and practical example.

2.8 Simple numerical on vapor - Part 4

- Calculate mass flow rate.
- Detailed explanation of the concept.
- Relevant theory and practical example.

2.8 Simple numerical on vapor - Part 5

- Calculate COP and Power.
- Detailed explanation of the concept.
- Relevant theory and practical example.

2.8 Simple numerical on vapor - Part 6

- Additional detail 6
- Detailed explanation of the concept.
- Relevant theory and practical example.

2.8 Simple numerical on vapor - Part 7

- Additional detail 7
- Detailed explanation of the concept.
- Relevant theory and practical example.

Key Takeaways

Critical understanding of 2.8 Simple numerical on vapor compression cycle. is essential for proper refrigeration and air conditioning system design.