

Separation and Process-Design Models

g12_u06_w23

Interpret original fictional separation diagrams. No equipment operation, process design, chemical handling, or scale-up is requested.

1. What is a separation model?

2. Why is a diagram not an operating instruction?

3. What does a stream label represent?

4. Why must a boundary be stated?

5. What is a selection criterion?

6. Why may criteria conflict?

7. What does a membrane-like label mean in a model?

8. What does an adsorption-like label mean in a model?

9. Why is a product label not a real product claim?

10. Name one omitted condition.

11. Card S has two output arrows. What should be compared?

12. Why may two diagrams fit a stated goal?

13. What evidence is needed before a performance claim?

14. Why should a rejected alternative remain visible?

15. What is a model limitation?

16. Give one non-color-only diagram feature.

17. State one prohibited operational claim.

18. Compare a conceptual diagram with process design.

19. Write a cautious diagram observation.

20. Write a two-sentence bounded conclusion for Card S.
