

Diagramme thermodynamique (p,h) - Courbes

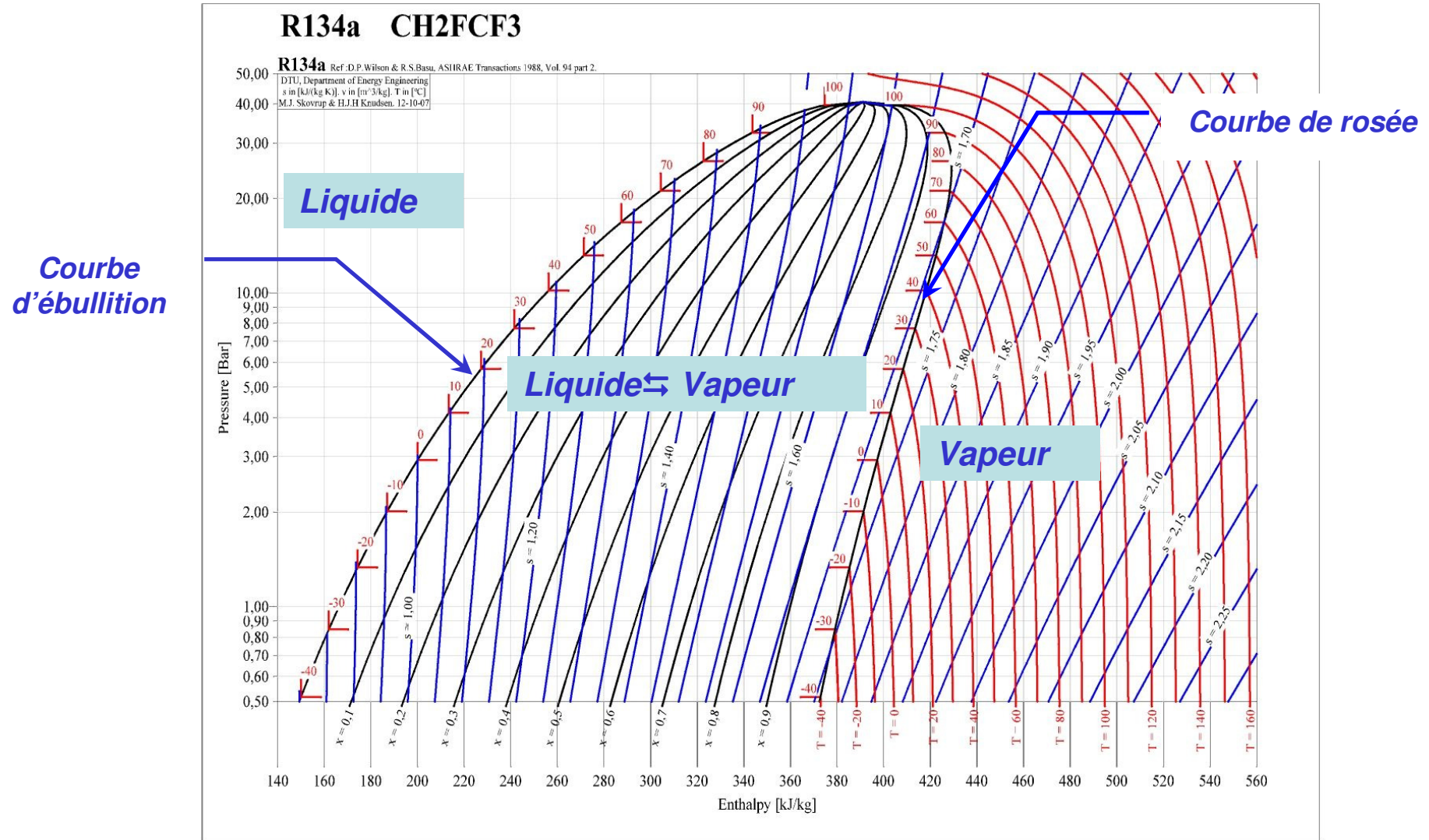


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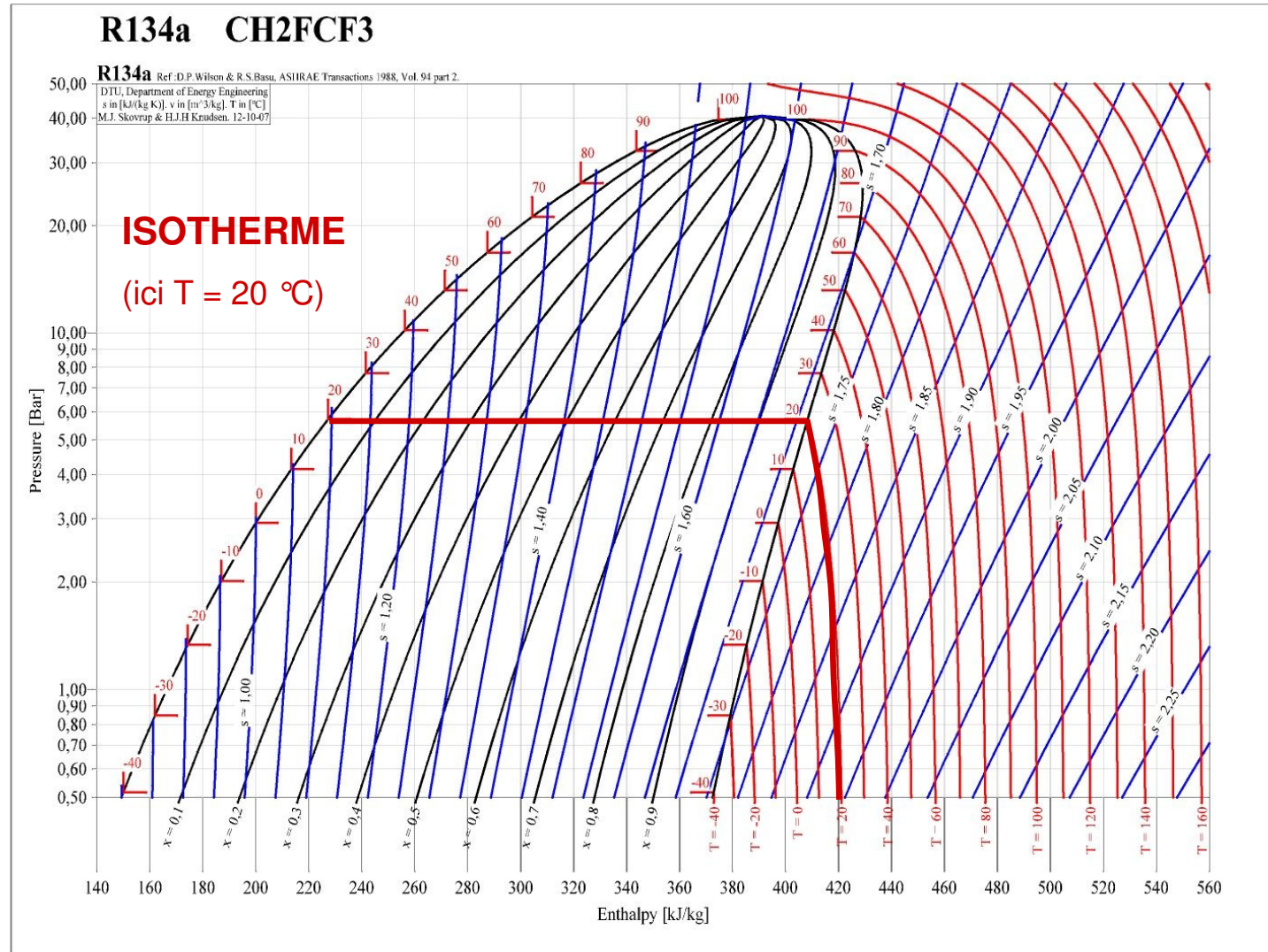


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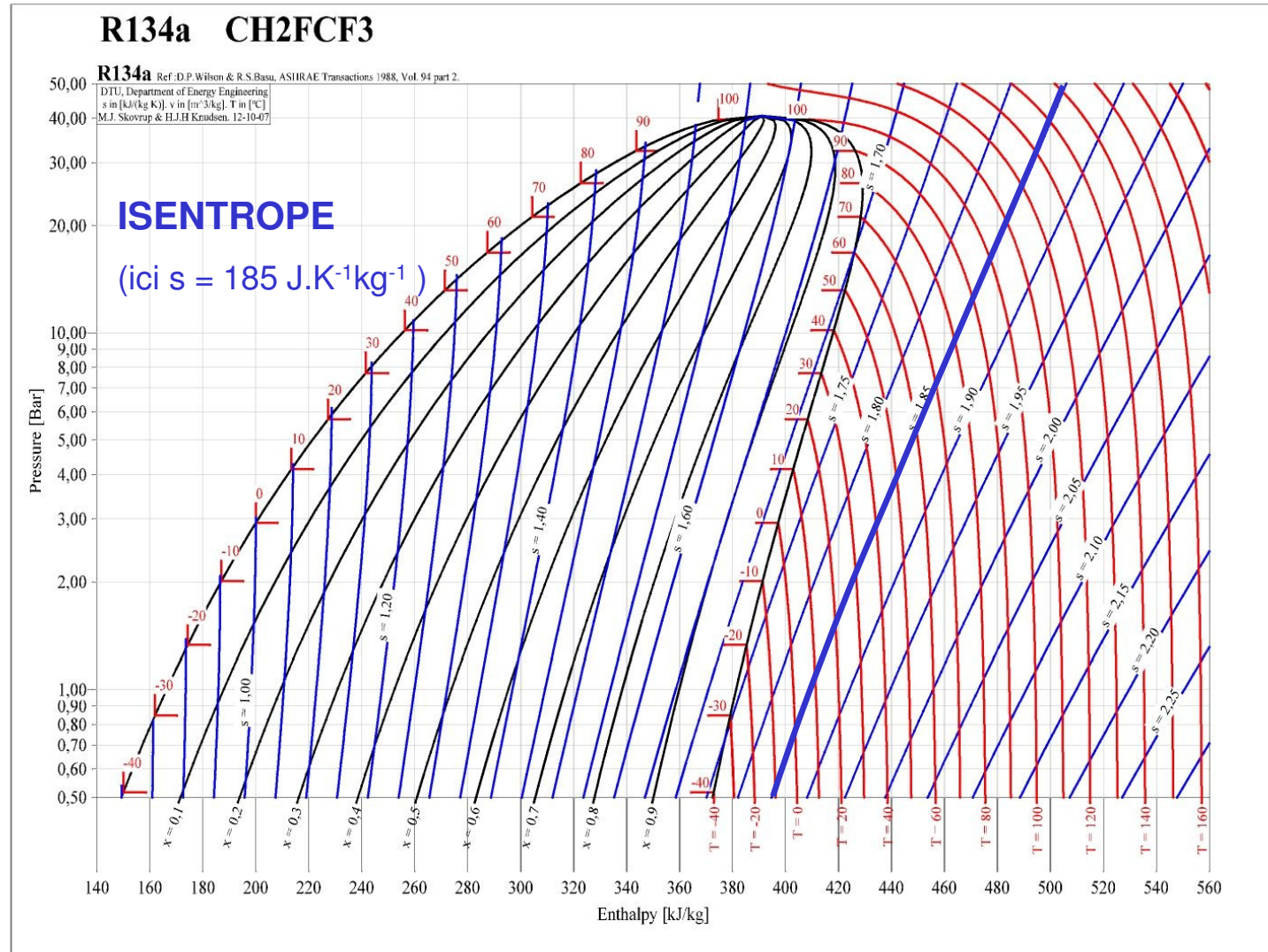


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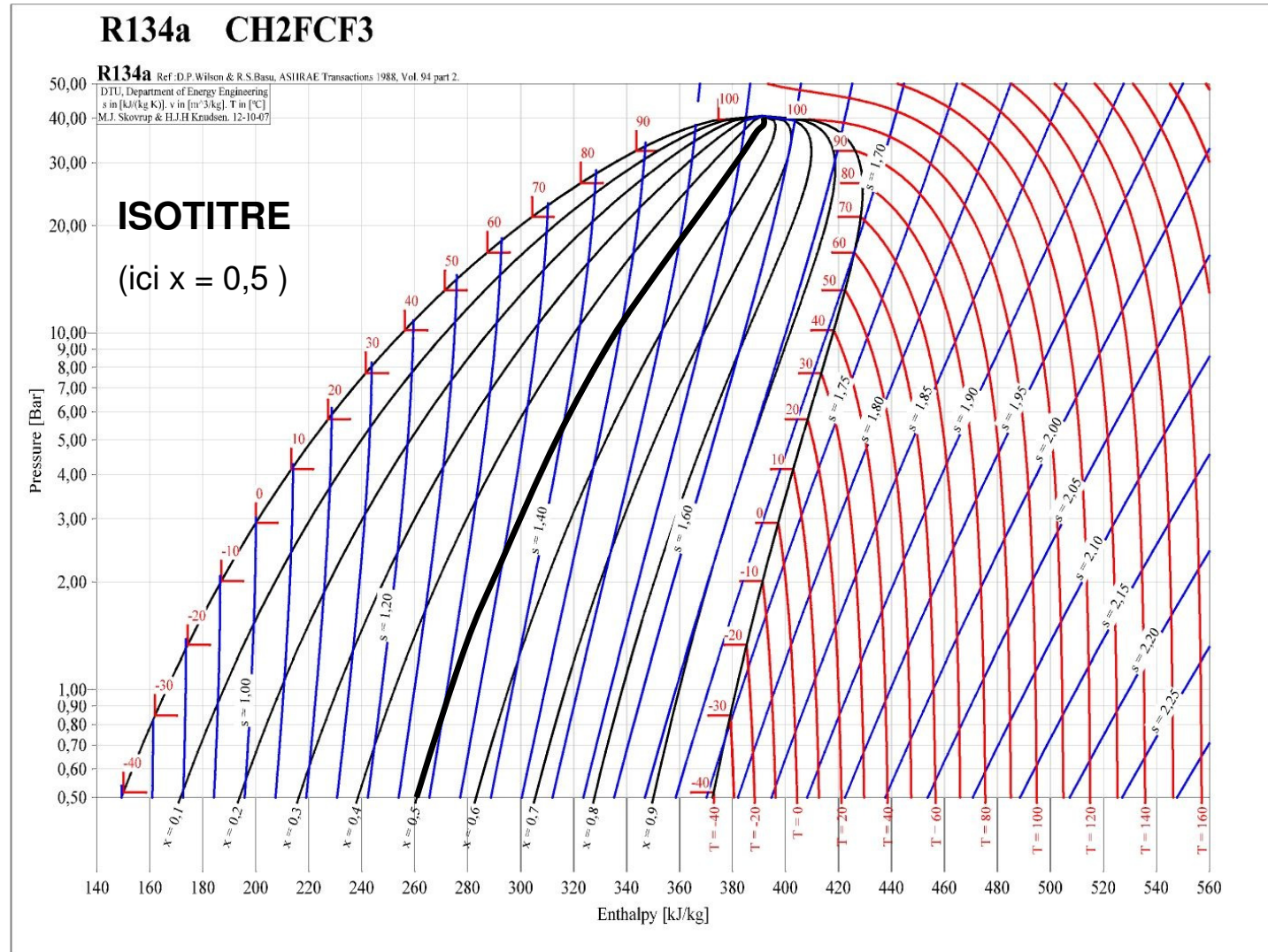


Diagramme thermodynamique (p,h)- Echelle log

P = ? →

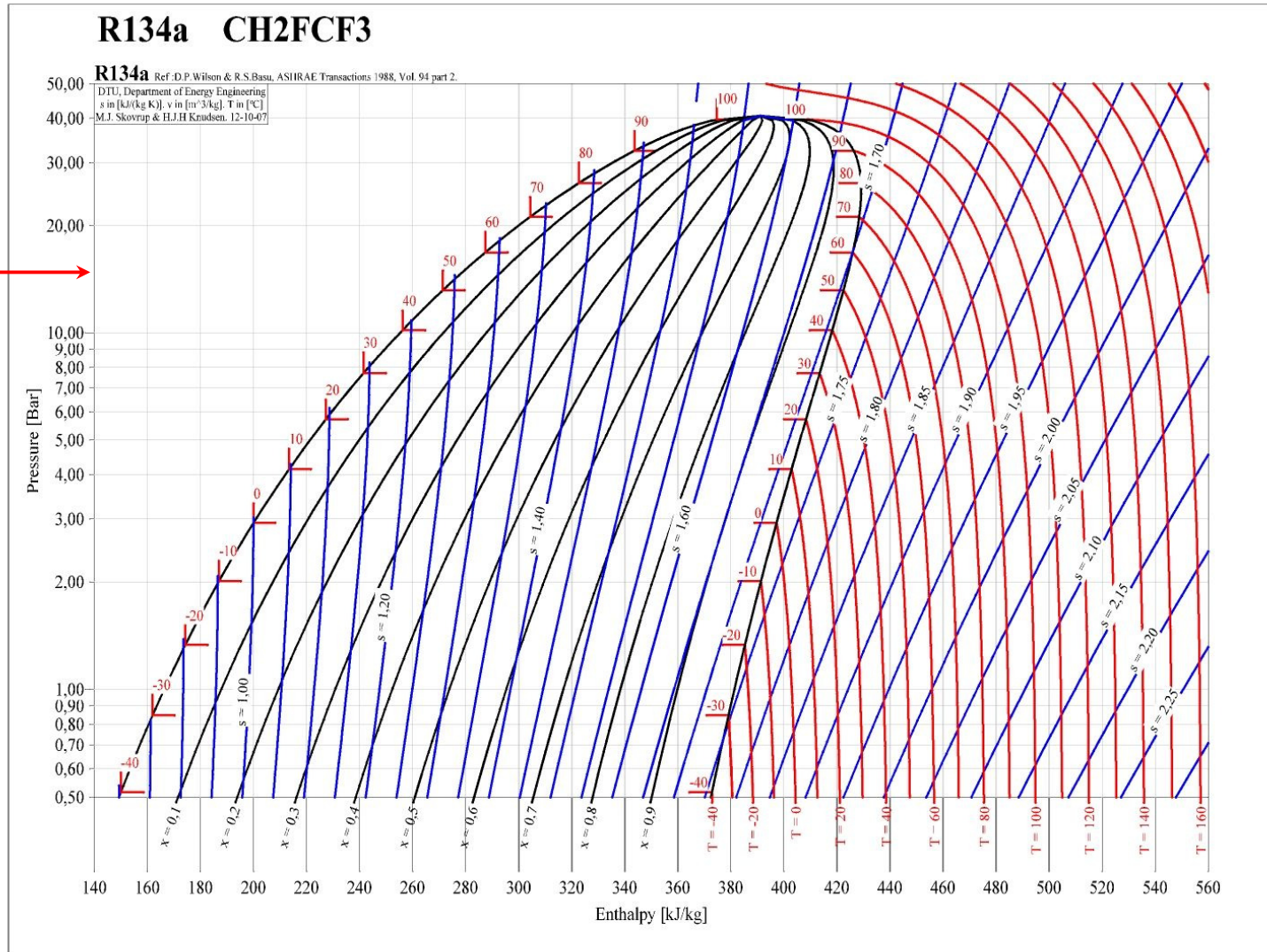


Diagramme thermodynamique (p,h) - Echelle log

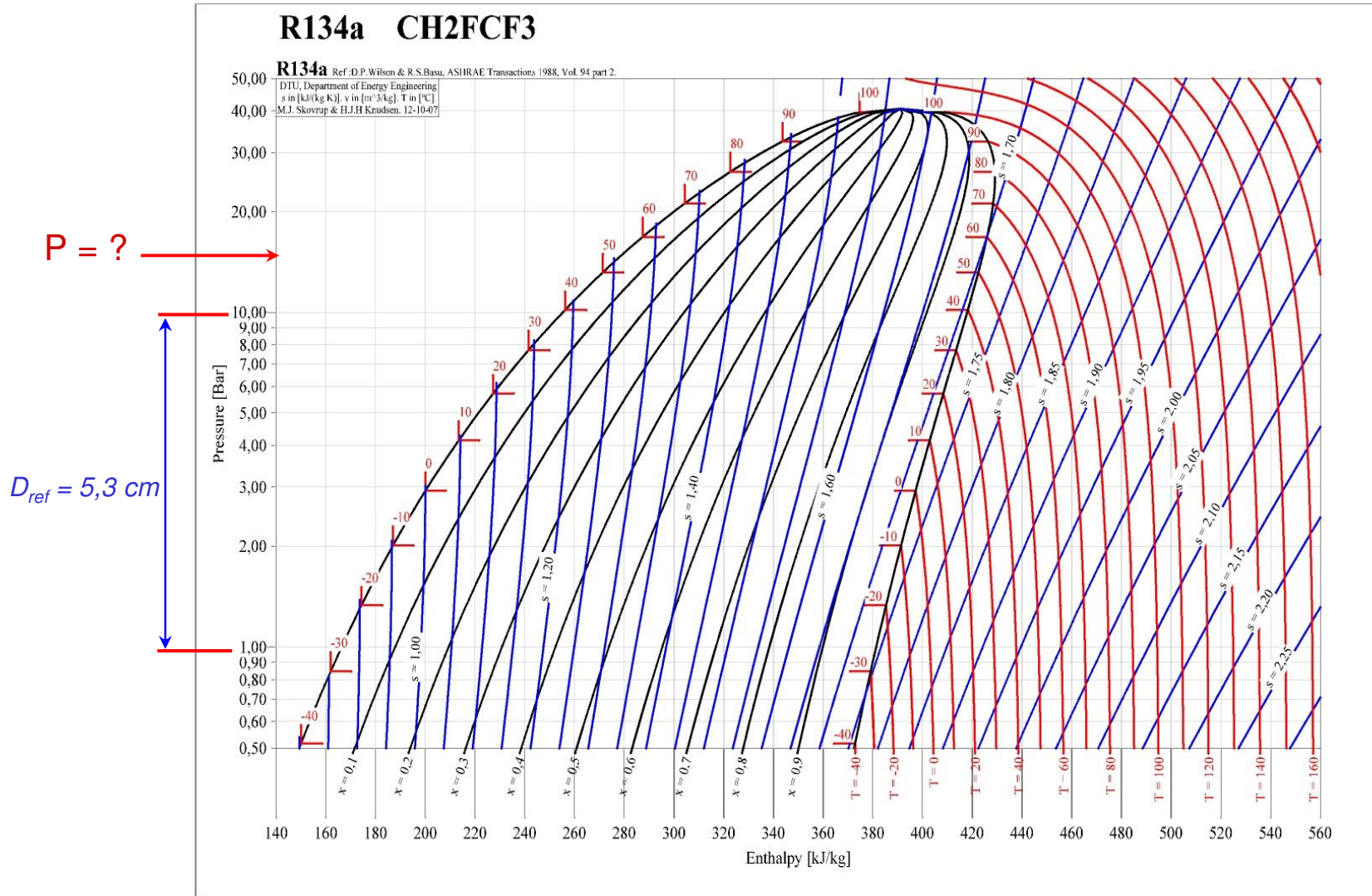


Diagramme thermodynamique (p,h) - Echelle log

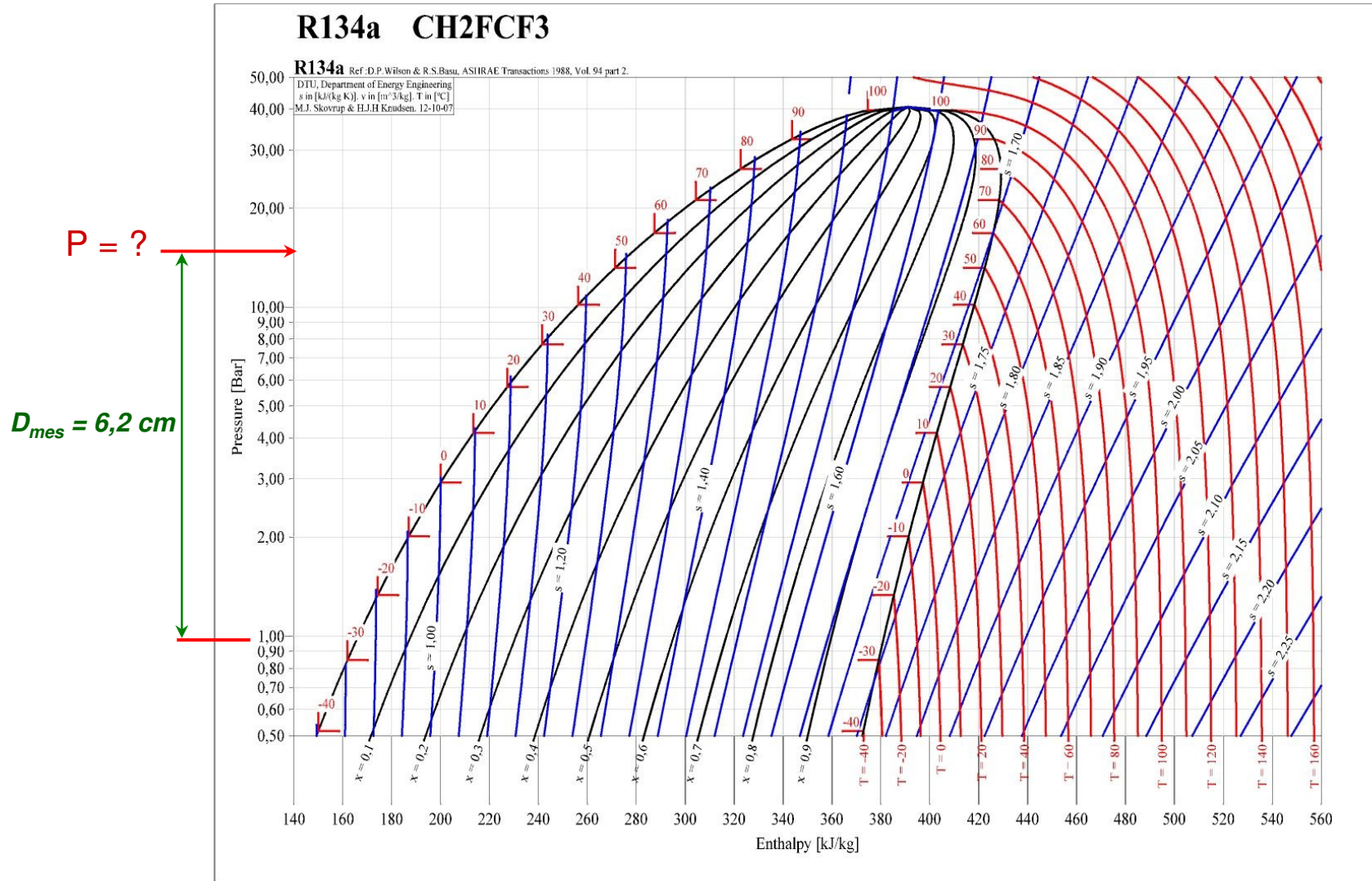


Diagramme thermodynamique (p,h) - Echelle log

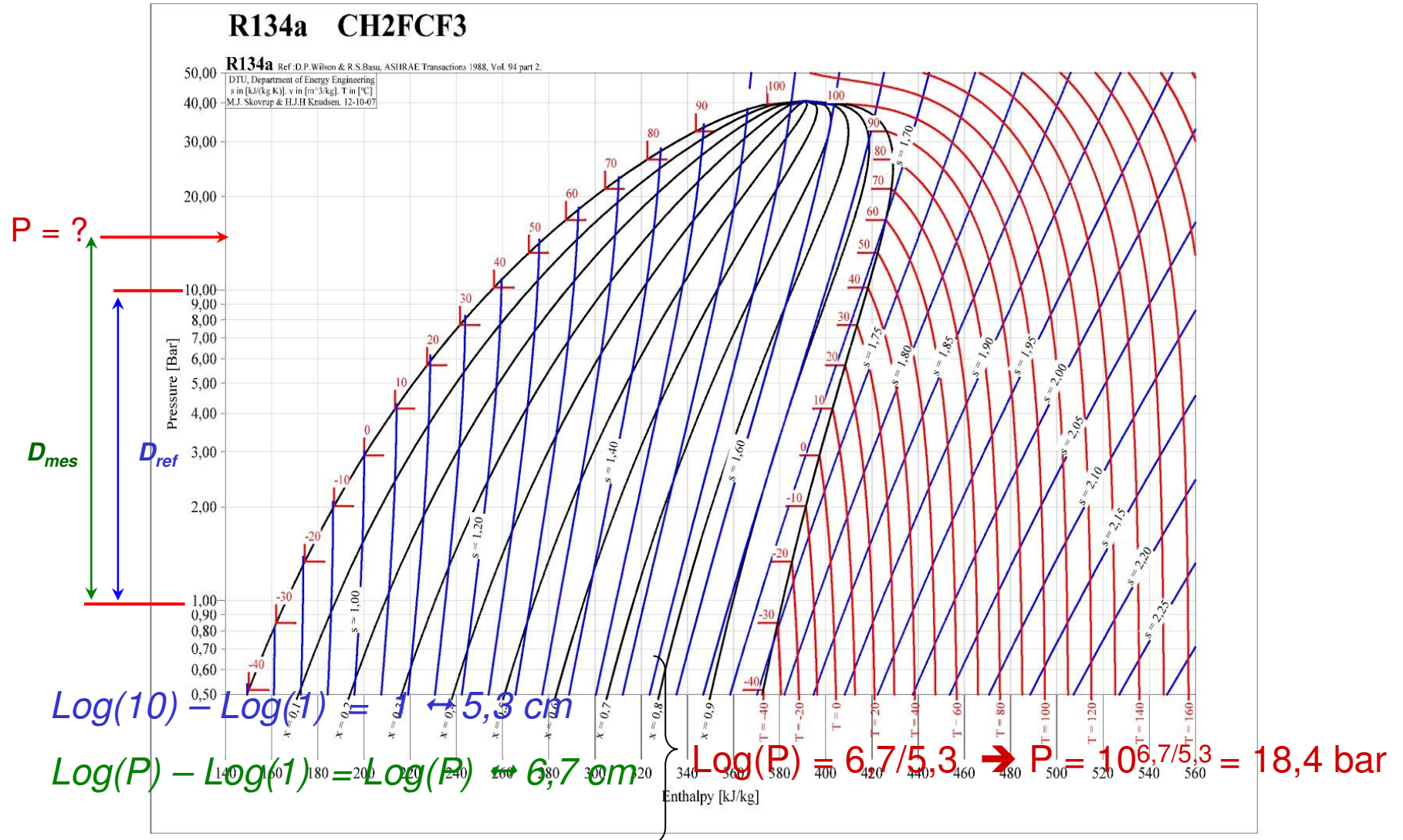


Diagramme thermodynamique (p,h) – w_i compression adiabatique réversible

Etat initial ($P_e = 1 \text{ bar}$, $T_e = 20^\circ\text{C}$)

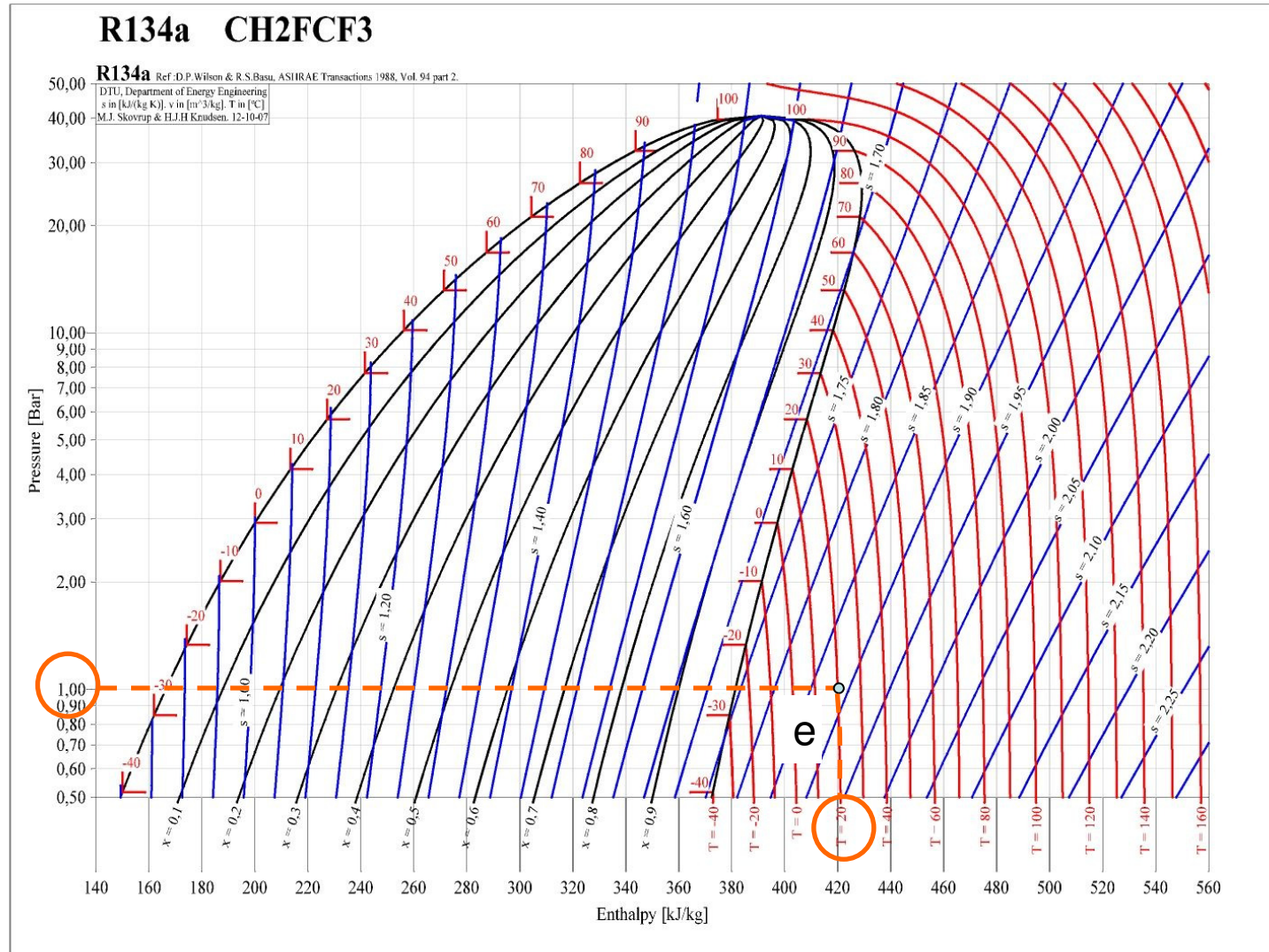


Diagramme thermodynamique (p,h) – w_i compression adiabatique réversible

Compression adiabatique réversible (= isentropique) jusqu'à P_s = 20 bars

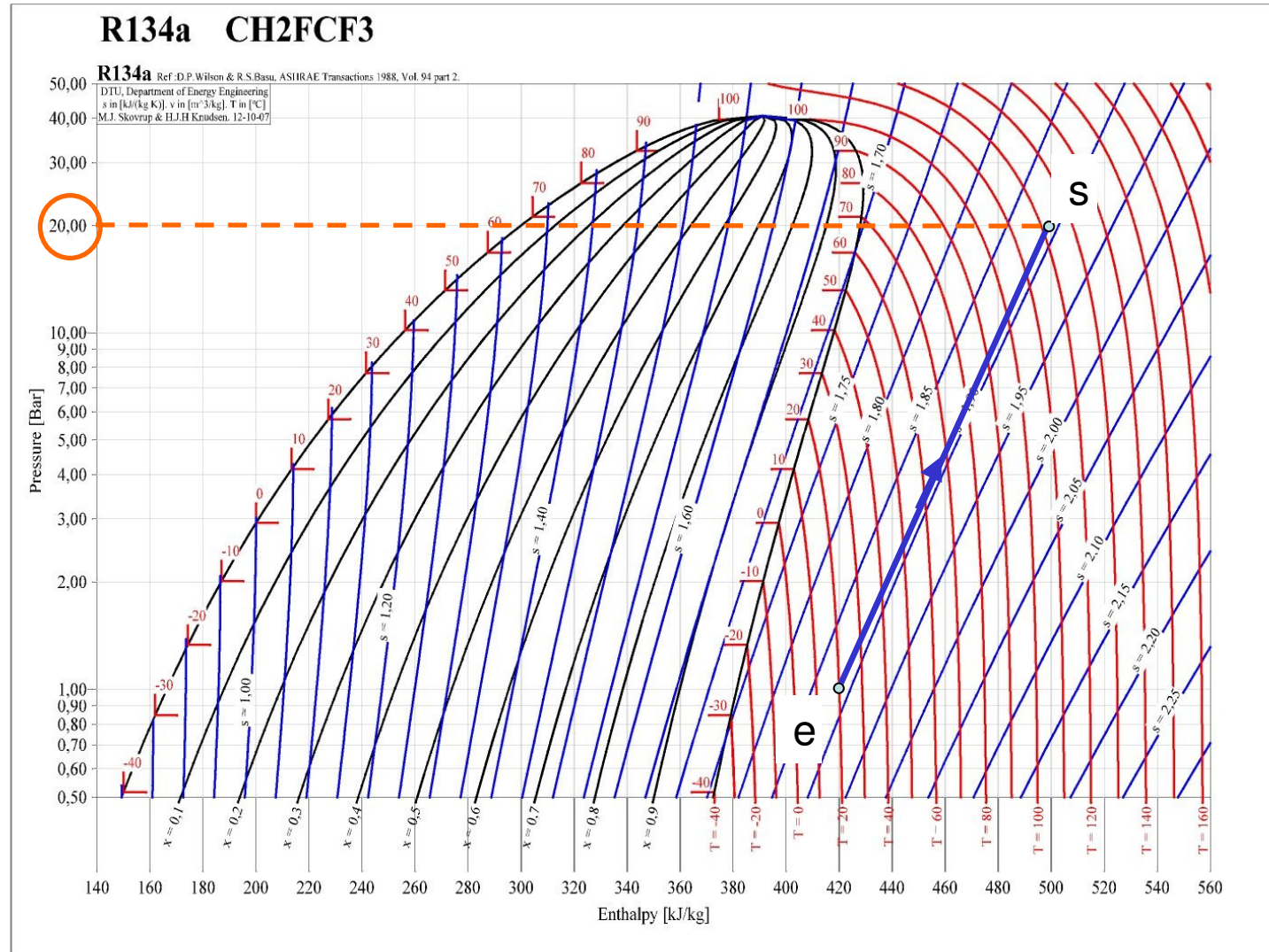


Diagramme thermodynamique (p,h) – w_i compression adiabatique réversible

Lecture de la température de sortie : $T_s \approx 125 \text{ °C}$

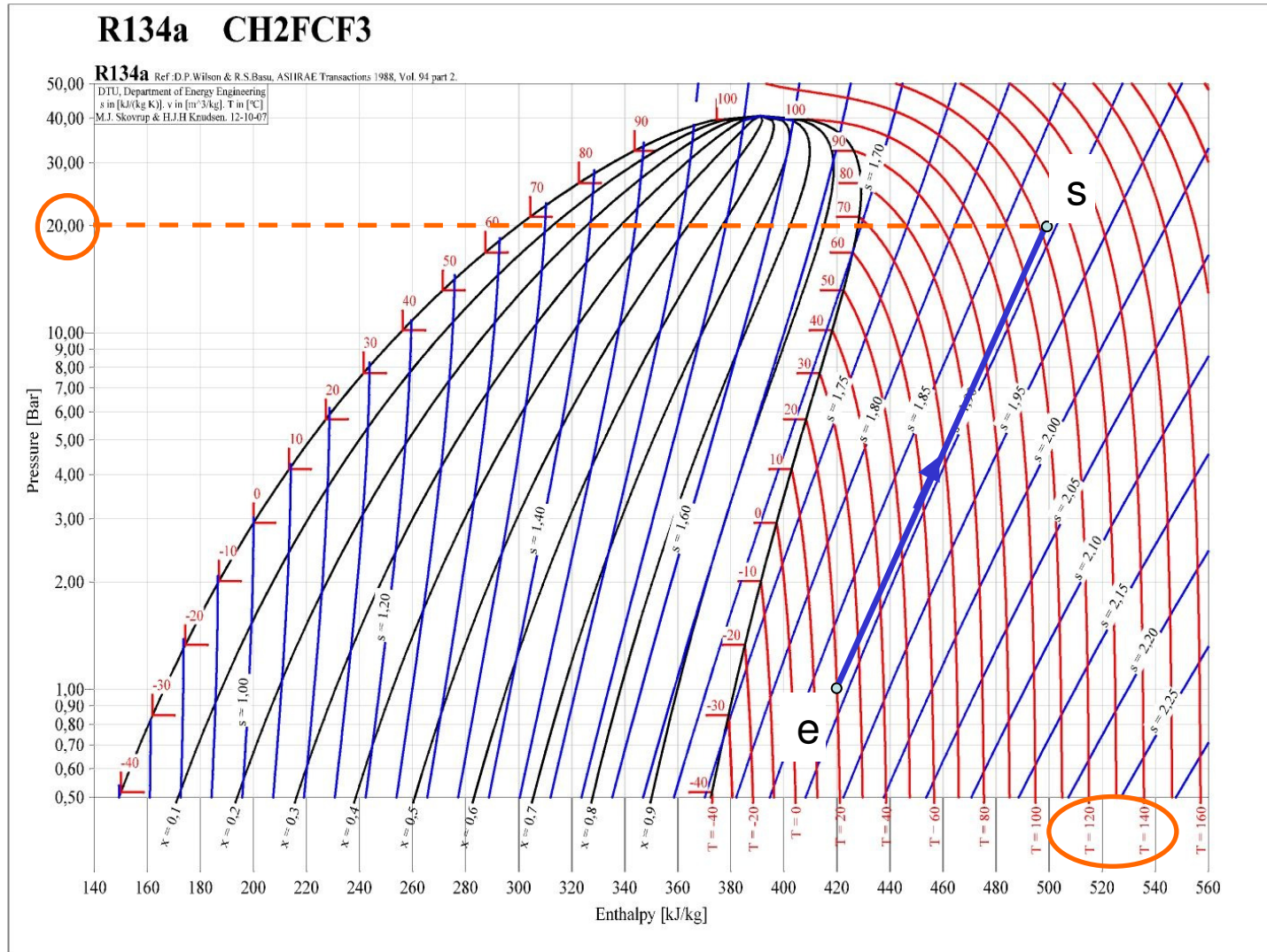


Diagramme thermodynamique (p,h) – w_i compression adiabatique réversible

Détermination du travail indiqué massique w_i

