

Cooling Theory Lectures Notes

Markus Hupfer and members of the team

September 7, 2024

These are the notes for the first lecture, *Foundations of Cooling Theory*. These are generalised and give insights on problems for all of the cooling gases, from the perspective of the results on the lecture, the likely contribution to Cooling Theory and the needs of Cooling and Power Professionals at Design/Manufacture stages. I also used several other sources for additional material, such as Part II course book at Cambridge on Cooling Theory and Thermodynamic gas in Professor John White, and the gas cycle notes from a Cambridge PhD on Subsonic Transonic Compressor intake gases by Professor Tim Gorman. I also included some more recent literature such as Applied Maths for the Power Professionals. The last sentence of the notes is based on Hugh Stanton's course notes, "Tough Road Ahead".

All numbers by these notes are my best.

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