1. Introduction
   1. quick introduction to state-of-the-art and need/applications for this tool
   2. overview of specific references (loss models and turbine design tools)
   3. list of objectives
2. Methodology (can switch order of 2.a and 2.b ? )
   1. Design tool methodology
      1. Overview and applications
      2. Thermodynamics
         1. References
         2. Assumptions
         3. Isentropic equations for turbine flow
      3. Loss models
         1. References
         2. Kacker and Okapuu
         3. Craig and Cox
         4. …
      4. Software and code
         1. Implementation of tool (python)
         2. Libraries and optimization functions
         3. Front-end view and interface (if I have time for that)
   2. TFG workflow methodology
      1. Initial turbine model
      2. Introduction of loss models
      3. Optimization
      4. Comparison to test cases
3. Turbine model
   1. Overview
      1. Inputs and assumptions (mi idea es que la herramienta tenga unos inputs obligatorios (temperatura de entrada, deltaH, etc.) y la lista de *assumptions* que se pueden modificar sólo si el usuario lo desea—al contrario, se utilizaría el valor *default*)
      2. Notation and geometry
      3. Outputs: tables, figures
   2. Model description
      1. Outlet Mach optimization
      2. Rotor angles optimization
4. Integration of loss models
   1. For each: define equations (as referenced in 2.a.iii), show where they are included into the turbine model
5. *Optimization*
6. Results, comparatives with test cases
7. Conclusion