**Objective:** Reduce the number and complexity of experimental variables affecting a physical phenomenon.

**Method:** Method of repeating variables.

\[ n \text{ indep variables} \Rightarrow (m - r) \text{ variables} \]

\[ r: \text{ number of reference dimensions (} M, L, T, \text{ temp)} \quad \frac{\text{Pi terms}}{\text{dimensionless}} \]

\[ \Rightarrow \text{Pi terms are quantities that "govern" the physical phenomenon of interest} \]

**Extension of the results: Similarity.**

- prototype vs. model: how to relate flow measurements in a model to actual flow in prototype?
- geometric similarity, kinematic similarity, dynamic similarity.