NOMOGRAMS:
LET'S GET PHYSICAL

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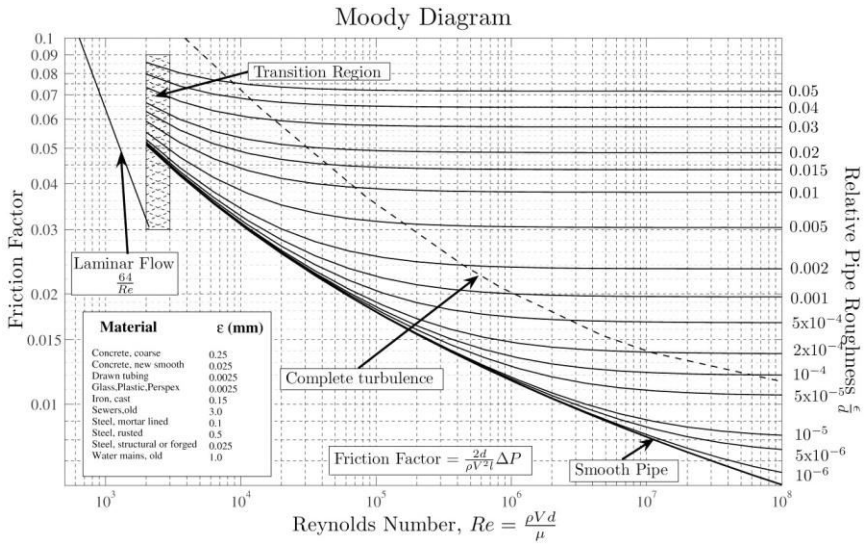
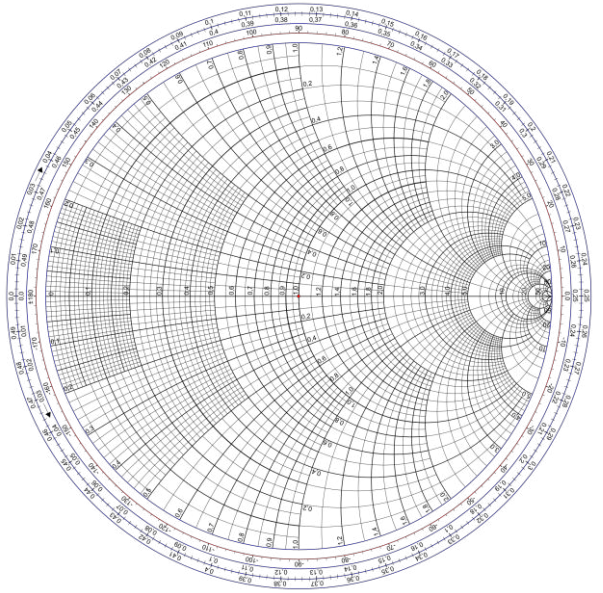
BACKGROUND

- A graphical calculating device that allows the approximate graphical computation of a mathematical function.
- Frequently used in engineering

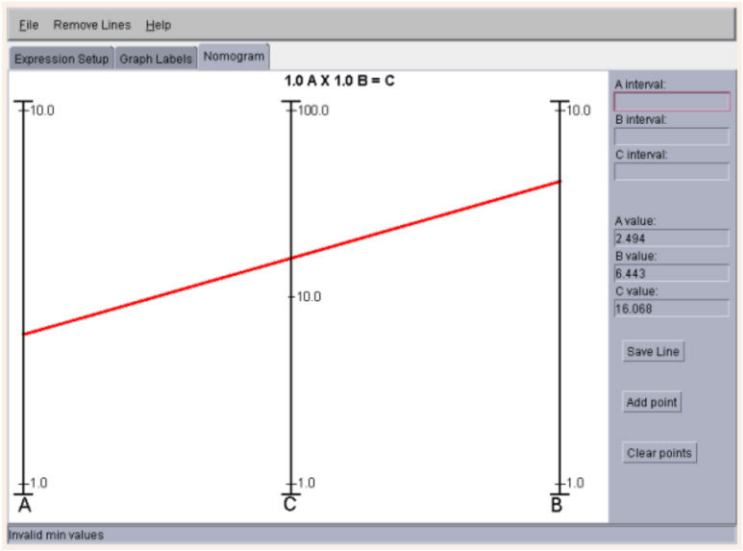




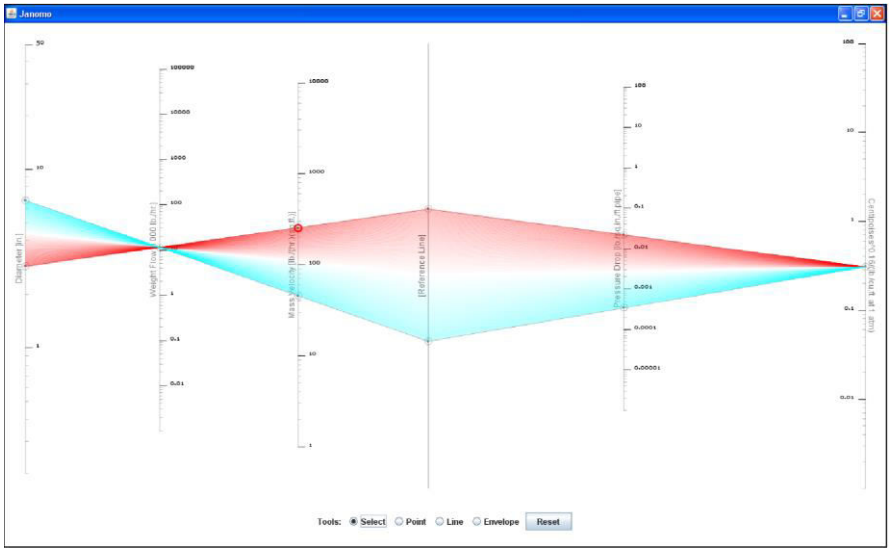
PROBLEM DESCRIPTION

- Nomograms generally require users to trace the lines on the diagram;
- They can be hard to use;
- It is not easy to compare results in nomograms;
- Nomograms are not universal, different nomograms represent different equations.

PREVIOUS WORKS



- T. B. Jones, R. Camara , and A. Marrero, "On-line tool for creating custom, interactive nomograms."



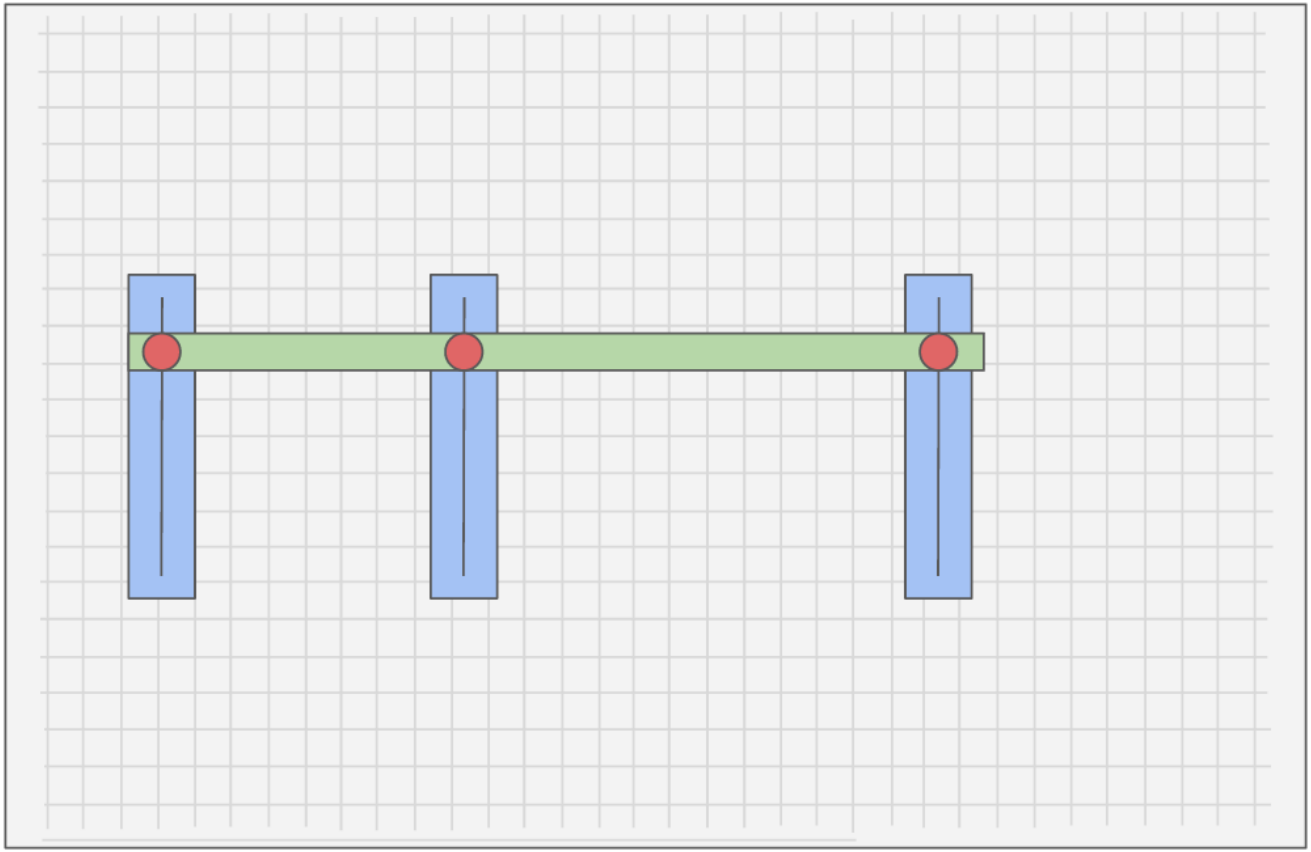
- M. Howison, "Constructing Interactive Nomograms."

PROPOSAL

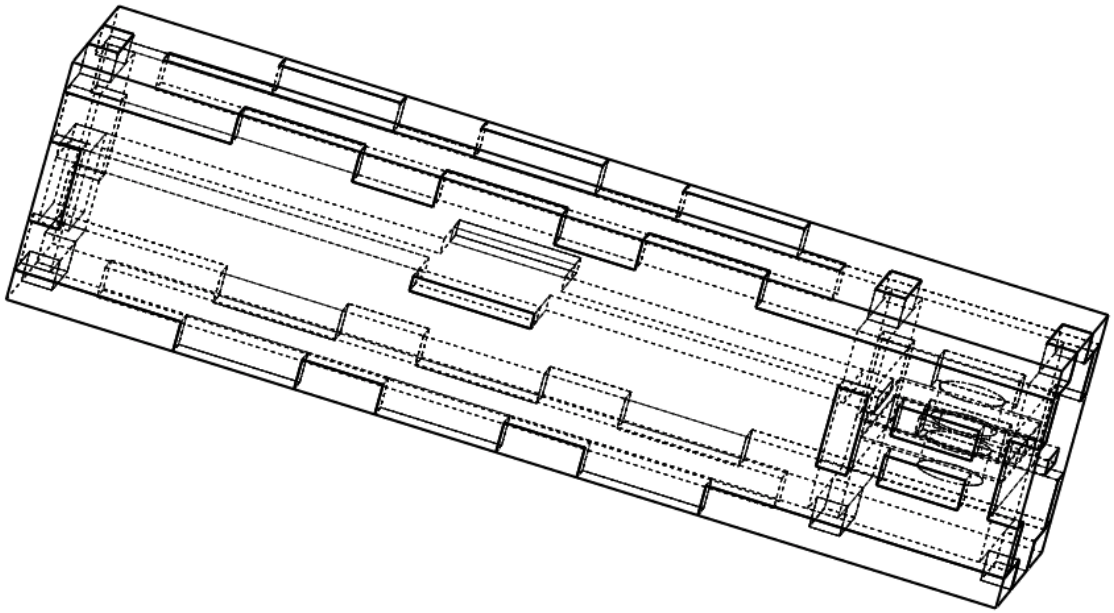
- We hope to develop a physical device that allows user to dynamically interact with DIFFERENT types of nomograms.

- Contains universality;
- Dynamic interaction;
- Tangible user interface;

IDEA



CURRENT PROGRESS



PROJECT PLAN

- Before May 27: Mechanical design (Shenli)
- May 27 – 29: Electronics (Shenli)
- Before May 30: GUI (Ernesto)
- May 31 – June 2: Report and presentation. (Ernesto & Shenli)