

PHILOSOPHY

DESIGN IS LEARNED BY DOING.

“A pupil from whom nothing is ever demanded which they cannot do, never does all they can.”

One **PURPOSE** of an Analysis and Design course is to prepare student for realities of the world of practicing engineering.

In **PRACTICE**, the engineer will deal with poorly defined situations in which problems to be solved will not be precisely stated.

Data **AVAILABLE** will be incomplete and probably inaccurate.

DECISIONS made with regard to one factor can reflect through an entire processing system.

ECONOMIC considerations will have an overriding importance.

Engineers usually **do not have data handed to them** on “silver platters”, but have to locate design information for themselves.

Other design books - *Resnick, Rudd & Watson, Douglas, Seider, Seader & Lewin ...*
have NO APPENDICES, and include practically no Tables nor Figures of properties, no design equations, etc.