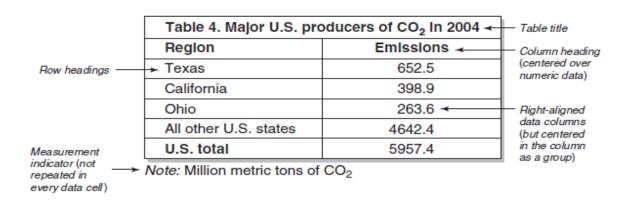
Seventh Lecture

Constructing Engineering Tables and Graphics

Tables:

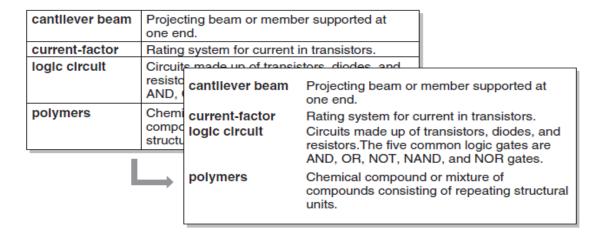
You've probably constructed tables using word-processing applications such as Open-Office Write, WordPerfect, or Word.



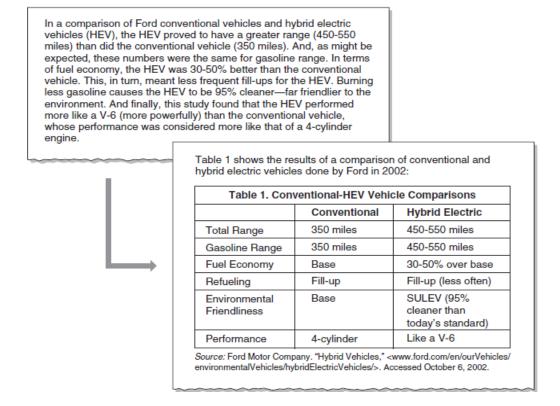
Note1: be aware of column and raw headings, middling, measurements as above

Regions Emissions	Table 5. Major U.S. producers of petroleum CO ₂ emissions	
Texas	Regions	Emissions
296.6 California 261.5 All other U.S. states 2021.0 Total 2579.1	Texas	296.6
	California	261.5
	All other U.S. states	2021.0
	Total	2579.1
	Note: Million metric tons of CO ₂ emissions	

Note 2: texts can be shifted to tables as shown above, but the items in text should be arranged in similar couples to be understood by the program.



Note 3: the gridlines of the tables can be hidden to be in a different style.



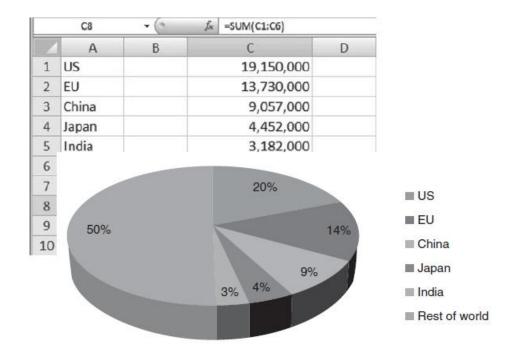
Note 4: converting a paragraph into table

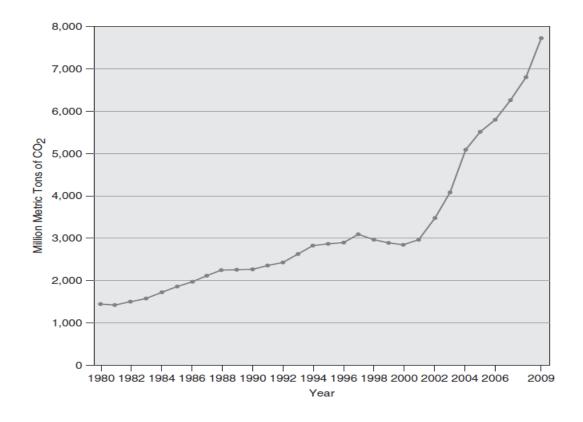
Note 5: cite the sources of the tables

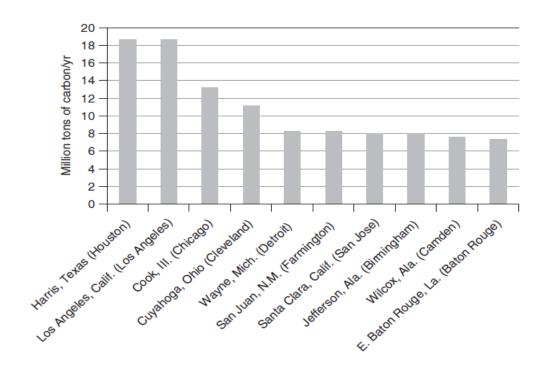
Ex: Source: http://en.wikipedia.org/wiki/List_of_countries_by_carbon_dioxide_emissions

Charts & Graphs:

The terms *charts* and *graphs* encompass the numerous ingenious ways of showing relationships between data—for example, **line graphs**, **column charts**, **bar charts**, **pie charts**, **and three-dimensional variations such as pictographs**. All of these types are visual representations of tables. In tables, the significance of the data is not immediately evident. Charts and graphs, on the other hand, make that significance stand out.

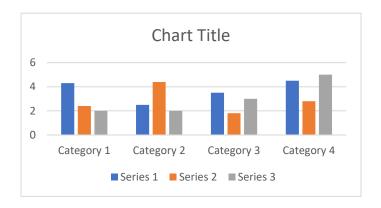






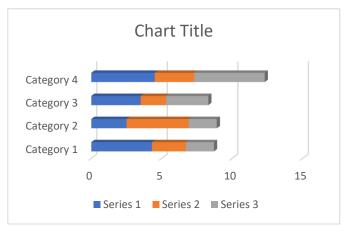
When to use a line graph, column or bar chart, or pie chart?

- Pie charts depict the relative portion of a total amount made up by each member that contributes to that total.
- Line graphs depict change in data occurring over time.
- Column and bar charts enable comparisons.









Activity:

- 1. Course Report (time period : delivered on 1 2 2024)
- 2. Mid Term Exam (1st lecture 5th lecture) on 23 2 2024

Course Report:

Write a Formal Technical Report (Progress or Persuasive report) for any selected engineering topic related to Chemical Engineering including:

- 1- Readers, select the reader, Title and Introduction. (1 Mark)
- 2- Purpose and objective, structure of the chosen report. (2 Marks)
- 3- procedures, analysis method, tables and graphs. (3 Marks)
- 4- Results and Discussion (2 Marks)
- 5- Conclusions and Recommendations (2 Marks)

The total marks is 10. Size 14, space 1.5, in English only. Four pages only, ignoring any point you will lose marks. One report in hard copy for each group (6 or 7 students) should submit in English. Each student should contribute.