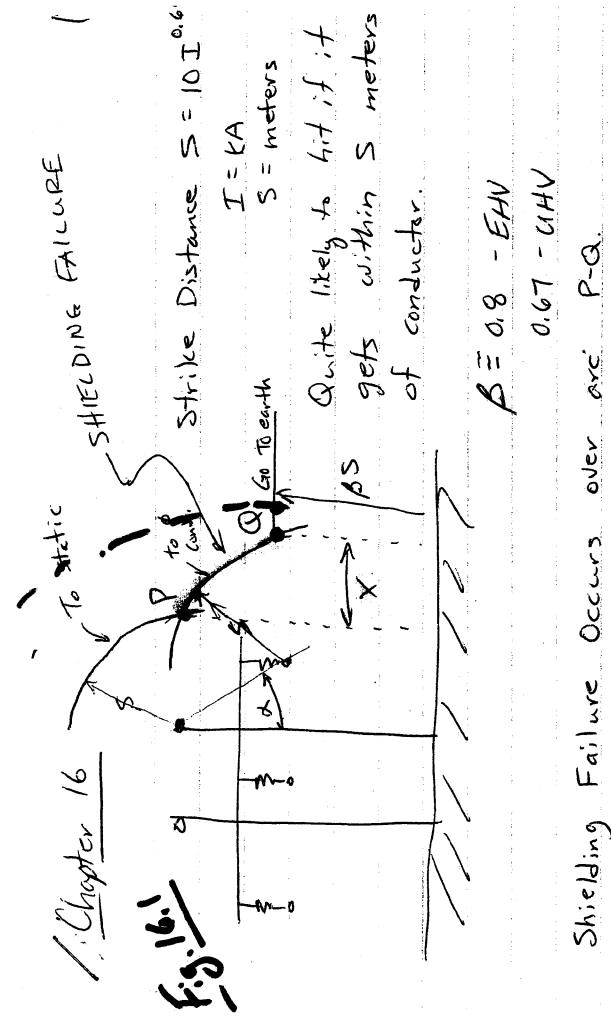
Topics for Today:

- Course Info:
- Web page: https://pages.mtu.edu/~bamork/ee5200/
- Book, references, syllabus, more are on web page
- Software Matlab. ATP/EMTP [License www.emtp.org] ATP tutorials posted on our course web page
- <u>EE5220-L@mtu.edu</u> (participation = min half letter grade)
- Hmwk 10 (Probs. 5.7 & 14.5) due Tues Apr 19th 9am
- Term Project Final Report completed by Mon April 25th 9am
- Term Project On-campus teams present on Monday Apr 25th 3pm
- Insulation design and coordination Chapter 16

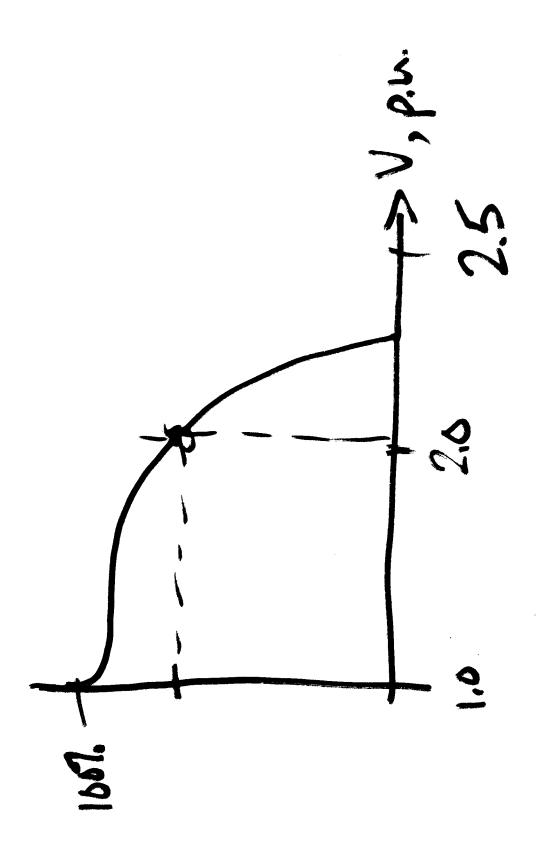
Shielding design for overhead lines

- CB ratings in general
- NESC tables for conductor separation, corona discharge
- BIL and BSL levels vs. nominal voltage ratings
- Comments on L-G vs. L-L overvoltages
- Corona characteristic nonlinear capacitance



PF & will coincide. some current value Imax, Shickling failure above Z S

11



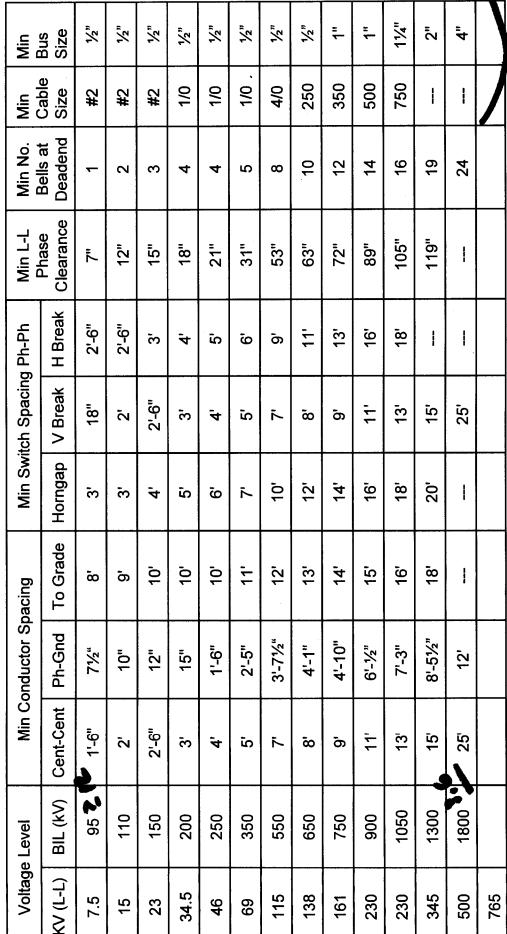
P(\$2.17 Table A.5 17.7% -0.8696 Know Fot 1F0 = 920 EV need th -018 15 078) 4466



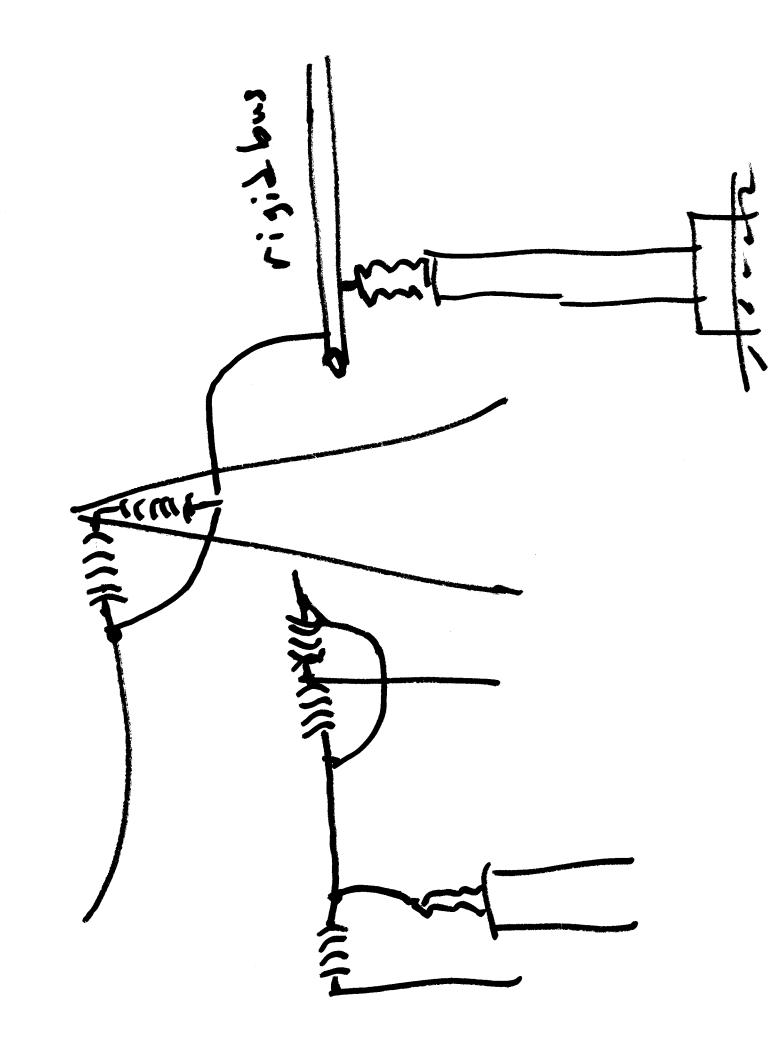
Typical Spacings and Clearances in a Substation

See up-to-date NESC to verify!

7.5







Another Issue...ts. Secondary effects.

Voltage Levels VS. insulation ratings. (1-6)

7-1 Yes - Vra PIOTXY A150:

nonlinear. C becomes orona occurs,

