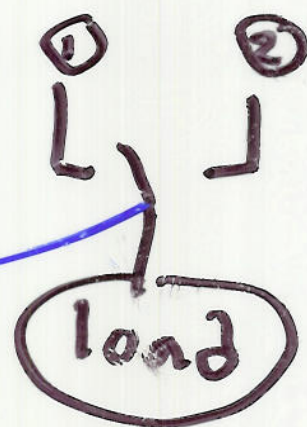


Power Quality

1. Continuity of service

a. Use UPS back-up

b. Two Feeders

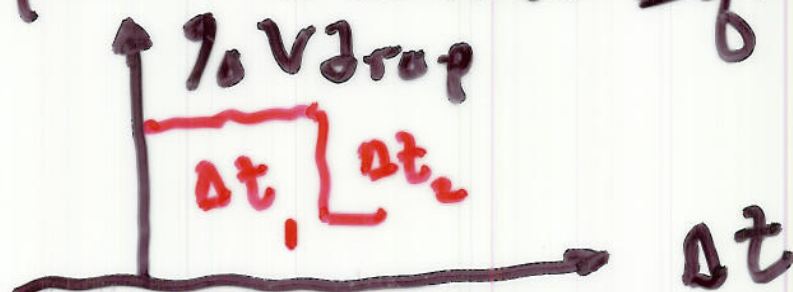


IGBT
switches
for "hot" transfer

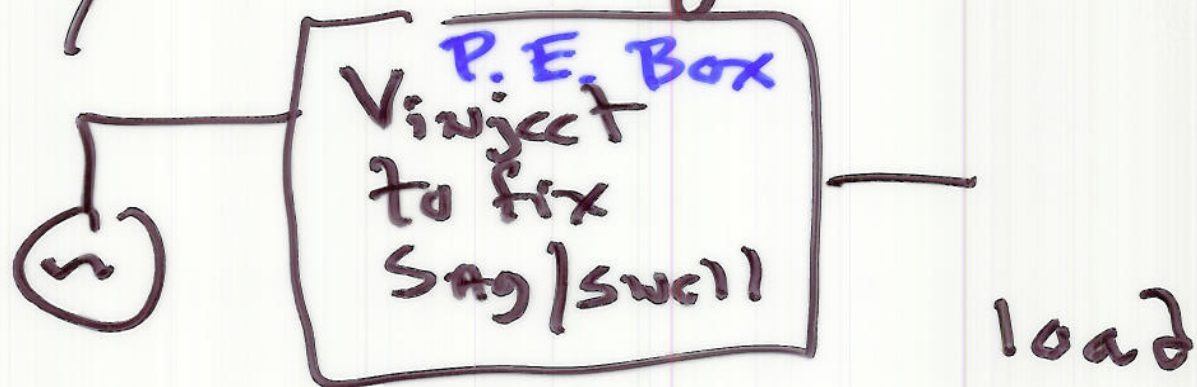
2. V changes: CBEMA

SEMI

Computer Business Eq. Mfr Assoc



Dynamic Voltage Control (DVR)



1. $\Delta V \ll V_{ups}$
2. No storage required
3. STATCOM for ϕ

Voltage Waveform: Harmonics

V_{bus} hard but I_2 (has harmonics)

$\frac{I_{distortion}}{I_{fundamental}} \approx 100 \ll 5 \uparrow$ IEEE Std.

$I_{fundamental}$

Total Harmonic Distortion