Classical model of for the Kundun 12 kus system utilizes the same reduced Your materia : Yesen for the power flow equations. ( Refer to How AO4 for its computation ).

$$\dot{\Theta}_{i}^{*} = (\omega_{i}^{*} - 1)\omega_{i}$$
  $i = 2 + Npv + 1$ 

$$\frac{3\times 1}{\omega_{i}} = \frac{1}{2H_{i}} \left[ \begin{array}{c} P_{mi} - \sum_{k=1}^{N_{pv}+1} Y_{ejenik} E_{vk}^{i} \cdot E_{i}^{i} \cos(\gamma_{ik} + \theta_{k} - \theta_{i}) \\ -K_{D_{i}}(\omega_{i}^{i} - 1) \end{array} \right]$$

j= 2+ Nev+1

Assurations:

Angle dynamis are much faster than Velteze dynamis. E Machine internel veltages JEq; + Ed; = E; are can assumed constant. They are obtained either by initialyation or simply given in the system

UL Eq; >C Edi-c

ヨモノコC

Eq; >> Fd; >> F == == and & E'DELOTE E  $(E_{d,+})E_{\eta}/(e^{-\frac{\alpha}{2}}) = E_{i}/\gamma_{i}$ 4 E: LZ LO, -3 = E, LY;

· ( = 8)-

So we can use 0; instead of r; is as the other



