The equal area criterial is a techique of checking 2 area segments and seeing if they are equal to see if system Can Stay in Stability. You can think of the two areas as "energy" Stability. If is useful for checky how much time you have to as that fault clearing dime (delta agle) the areas. The max time, and coreesponding angle as the "critical cleaning angle." Issue sunning the motor as a underemited because only the power factor is changed. is the case because at underexited , the motor to correct flux and over excited, the motor sufflies reactive power to lover flux "notor seems to be "self correctly" and encounters no issue At very low field wrent though you may not becach Synchronism Under emited overogated both operating points the literal aplat oreal