# KING FAHD UNIVERSITY OF PETROLEUM \& MINERALS <br> ELECTRICAL ENGINEERING DEPARTMENT <br> Dr. Ibrahim O. Habiballah <br> EE-463-161 

## Key Solutions

Quiz 4
ser\#:
I.D.:
Name:

Circle the correct answer True or False of the following:

1. The equation below is the power-angle equation

True False
$\frac{d^{2} \delta}{d t^{2}}=\frac{w_{s}}{2 H}\left(P_{m}-P_{e}\right)$
2. The intersection of the output electrical power and the post-fault power-angle curve gives information about the maximum rotor angle position.

True False
3. The rotor critical-clearing angle can be obtained by integrating the pre-fault and post-fualt power-angle equations.

True False
4. Transient stability study refers to the ability of the various machines in the system to regain and remain in synchronism after a normal disturbance.

True False
5. The rotor torque-angle, following a proper cleared fault, could be critically damped, un-damped oscillated, or damped oscillated.

True False

