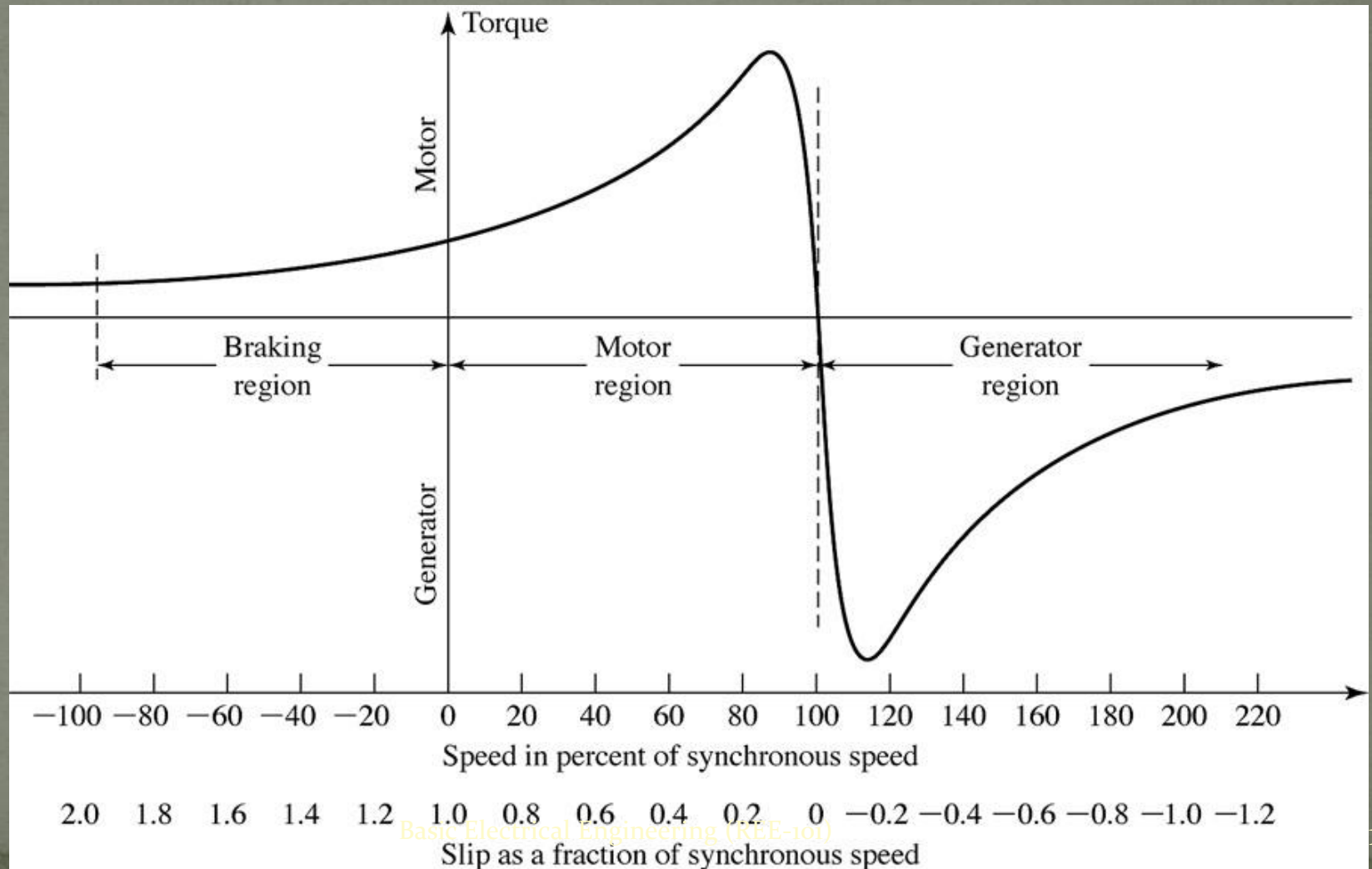
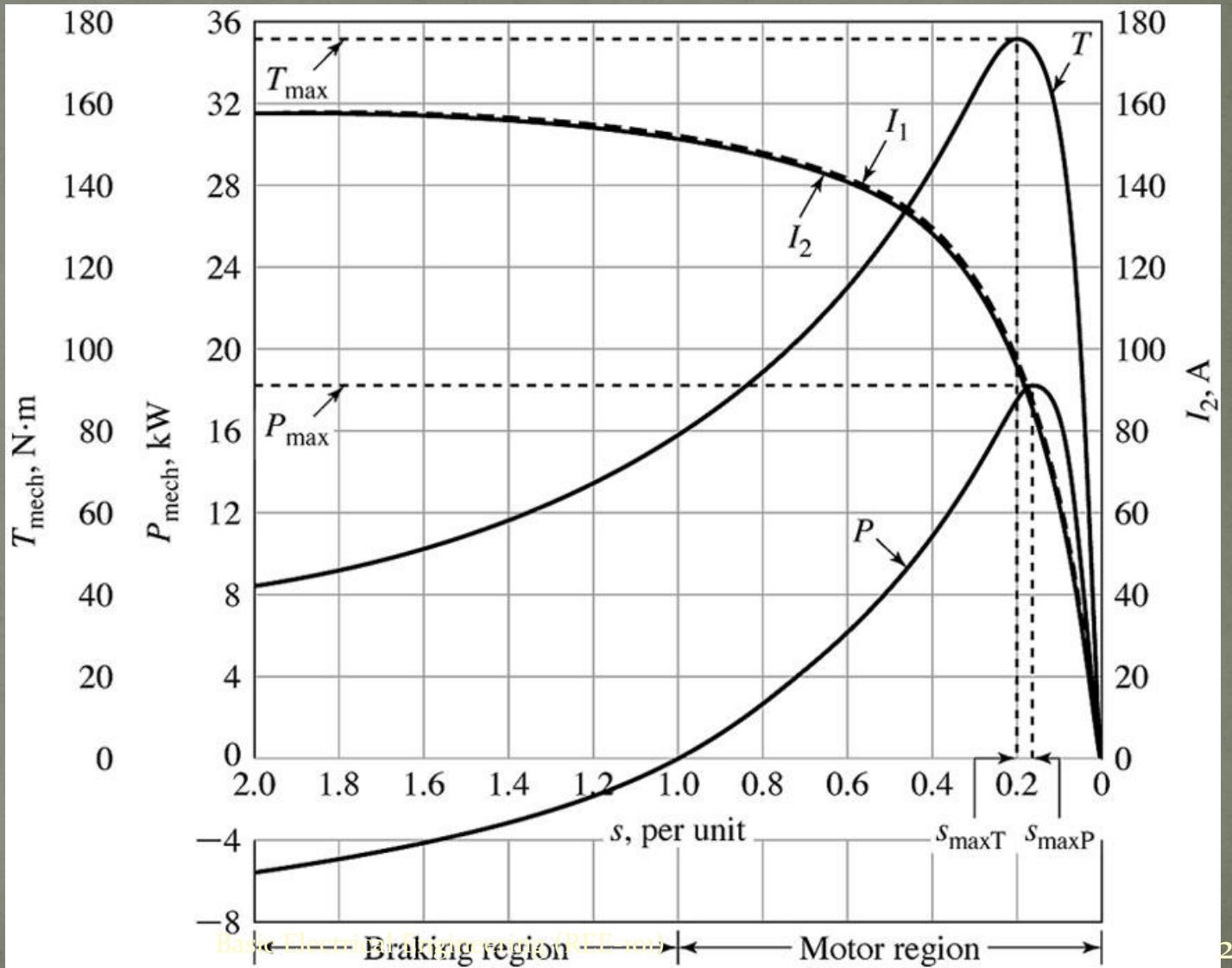
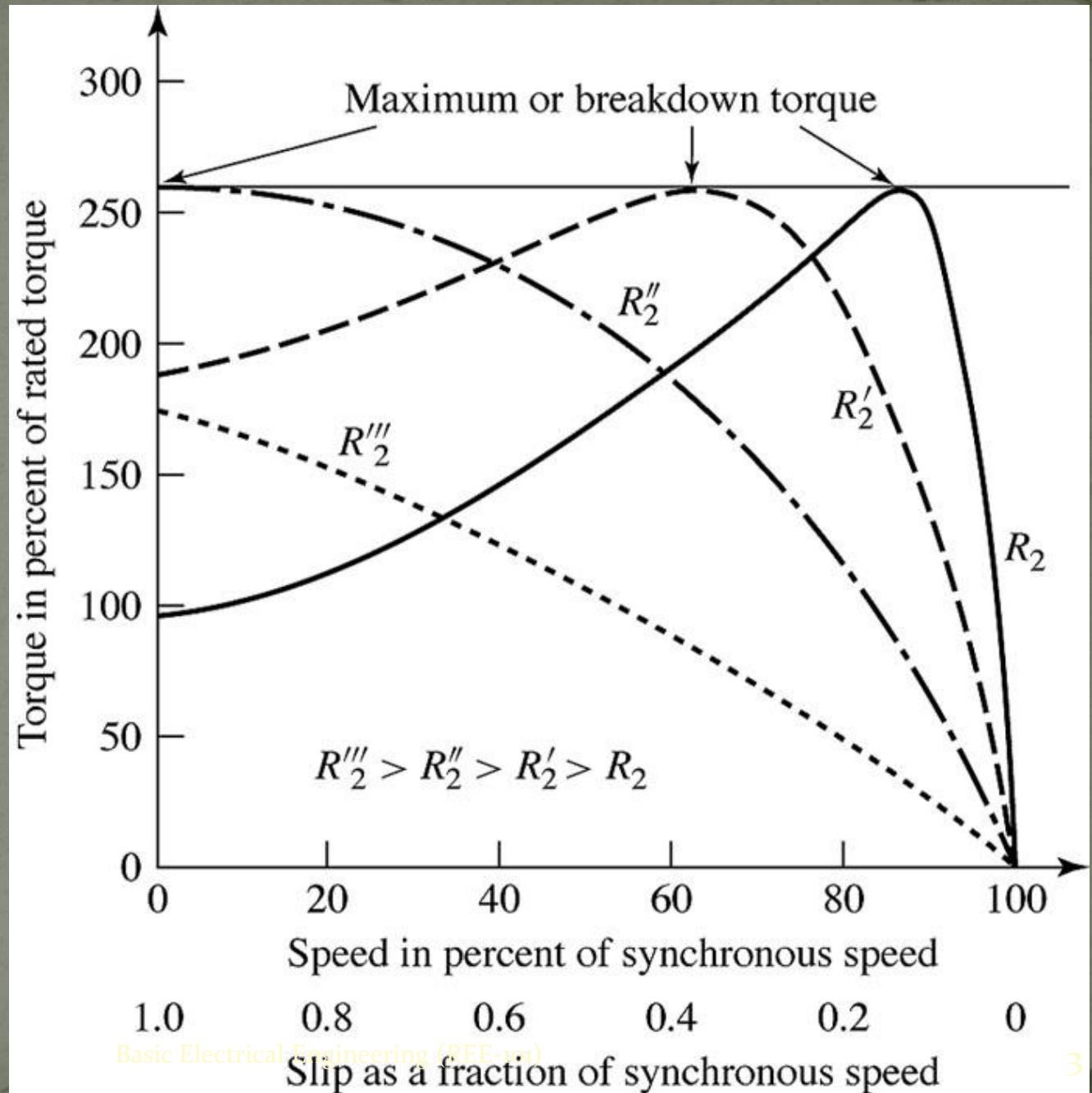


Induction-machine torque-slip curve showing braking, motor, and generator regions.

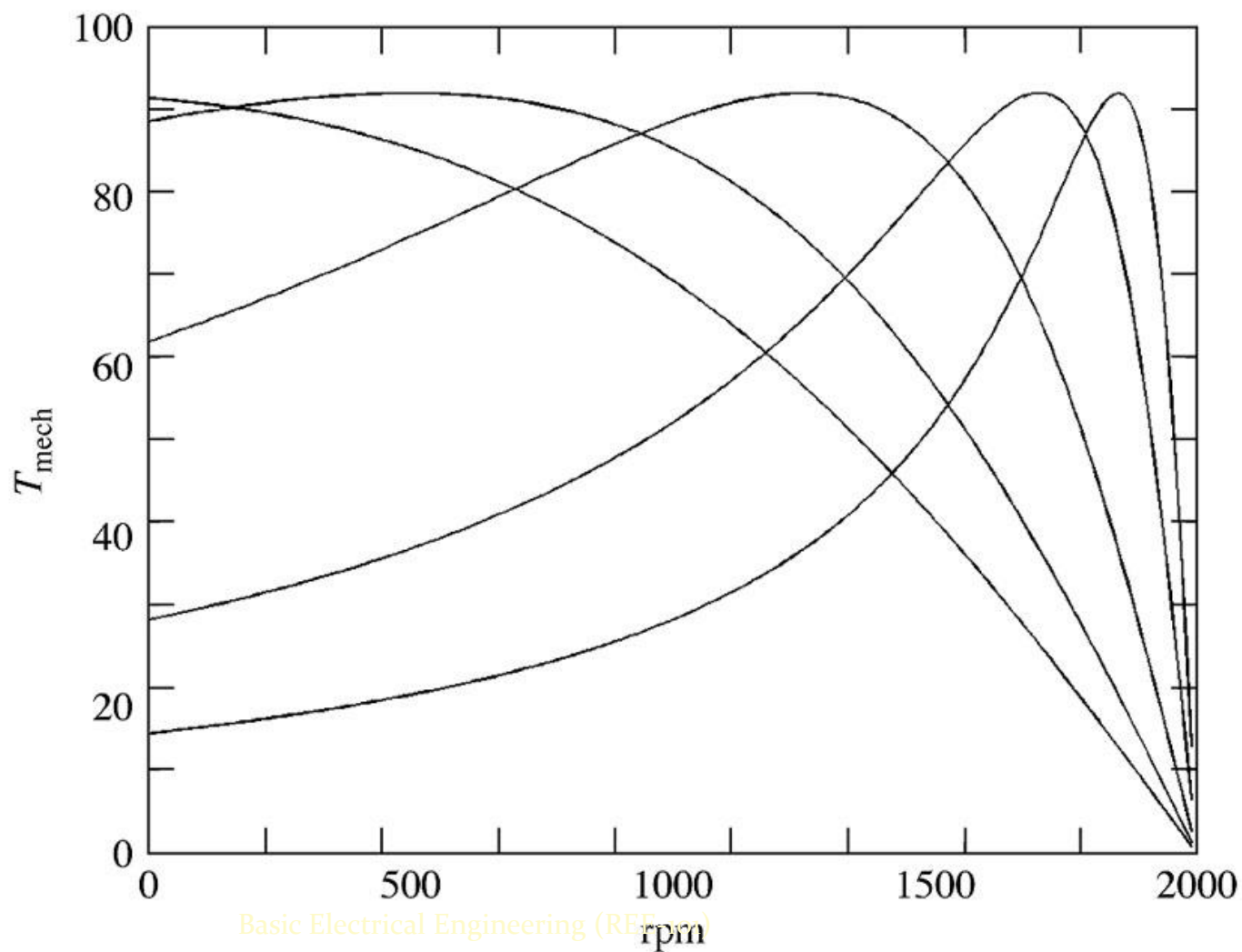




Induction-motor torque-slip curves showing effect of changing rotor-circuit resistance.



Electromechanical torque vs. speed for the wound-rotor induction motor of Example 6.4 for various values of the rotor resistance R_2 .



THREE PHASE INDUCTION MOTOR

Applications OF induction motors

Squirrel cage induction motor

Squirrel cage induction motors are simple and rugged in construction, are relatively cheap and require little maintenance. Hence, squirrel cage induction motors are preferred in most of the industrial applications such as in

Lathes

Drilling machines

Agricultural and industrial pumps

Industrial drives.

Slip ring induction motors

Slip ring induction motors when compared to squirrel cage motors have high starting torque, smooth acceleration under heavy loads, adjustable speed and good running characteristics.

They are used in

Lifts

Cranes

Conveyors , etc.