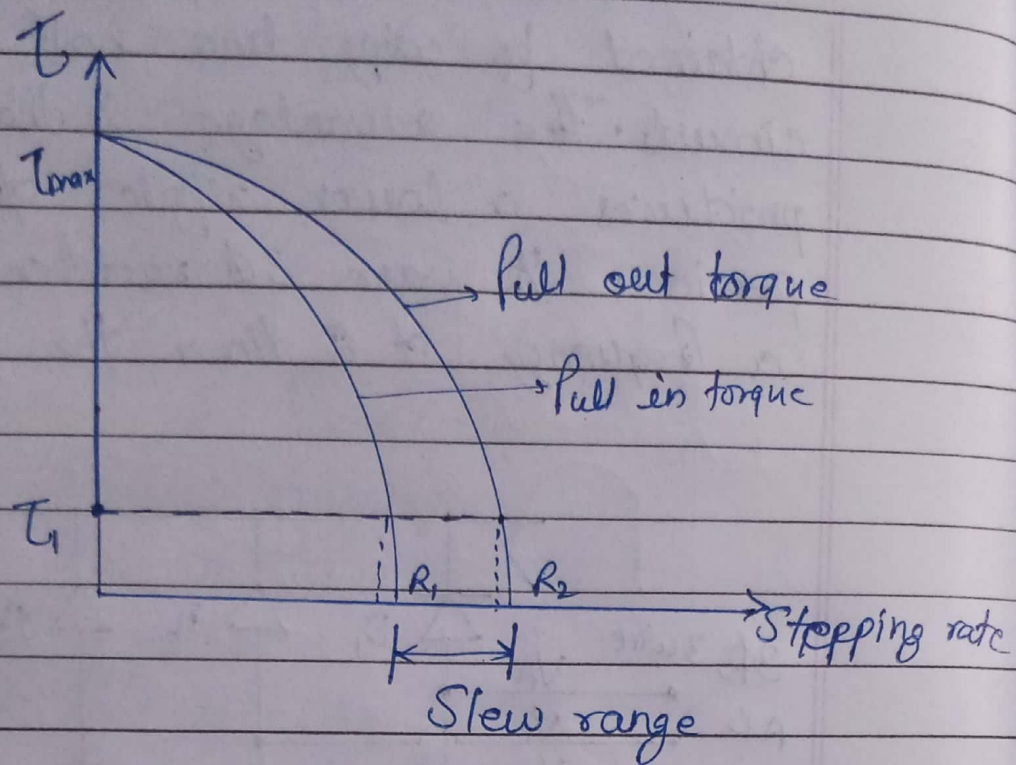


Torque vs Stepping rate characteristics-



This characteristic gives the variation of electrical torque developed as a function of stepping rate in pulse per second.

The stepper motor is characterized by

- (i) Pull out torque vs pulse rate
- (ii) Pull in torque vs pulse rate

The pull in torque curve shows the maximum stepping rate with which the stepper motor can start, synchronize, stop or reverse at different load torque.

The pull out torque curve shows the maximum stepping rate at which the motor can run at different load torque but can't start, synchronize, stop or reverse.

Once the motor starts, & synchronized the pulse rate per second can be increased up to f_2 without losing synchronism.

The region between the two torque curves (pull out & pull in torque curves) is known as the Stew Range.