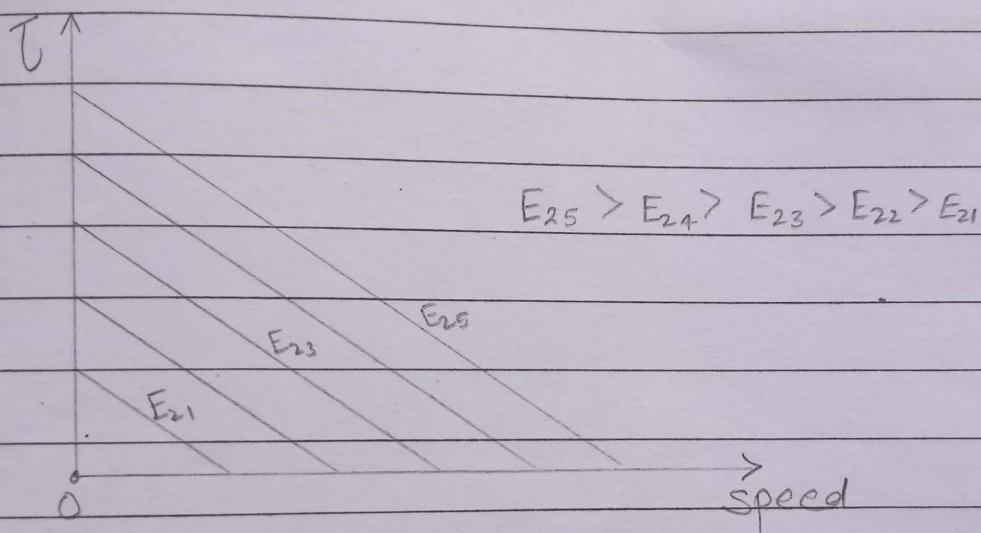


## Torque - Speed characteristic -



A high rotor resistance ensures a negative slope for good stability. A servomotor rotates only when a detectable error occurs at low voltage. Hence torque-speed characteristics is linear.

## Features of AC servomotors -

- (i) Light in weight
- (ii) Reliable
- (iii) Smooth & noise free
- (iv) No brushes or slip rings required
- (v) Large torque & large resistance
- (vi) Simple to design
- (vii) Negative slope of T-Ns characteristics.

## Applications -

- (i) Feedback control systems
- (ii) Robotics
- (iii) In aircraft & spacecraft
- (iv) In RADAR
- (v) In airplanes