

Frequency response experiments

Frequency response experiments are performed with three belt-tensions : 30,40 and 50[N]

- Input signal : torque of driving motor
- Output signal : speed of driving motor

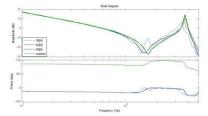


Fig.2 Frequency response experiments measurement

• Reference speed is changed when disturbance torque is added, after driven motor's speed follow reference speed.

• The similar performance has been achieved for three cases.

4.Conclusion

Belt-tension measuring instrument has been installed using strain gauges.

•We experiment robust speed control. The similar performance has been achieved by robust control against belt-tension variation.