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8 November 2018
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Malluri, Suburban Malaya (SM)
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



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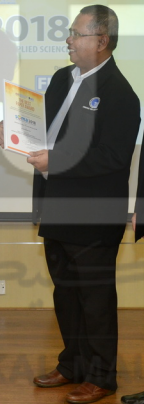
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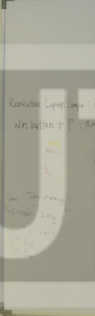
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Problem Statement

Figure 1 : Rotor position to derive inductance

Figure 2 : Inductance at different rotor positions

- Highly **non-linear characteristic** due to hysteresis and magnetic flux distribution.
- High torque resulting high **overshoot**.
- Low torque cause **incapable of initiating rotary motion**.
- Different **rotor position** has **different inductance characteristic**.





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MODELING OF A SINGLE ROD DOUBLE ACTING PNEUMATIC ACTUATOR SYSTEM

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