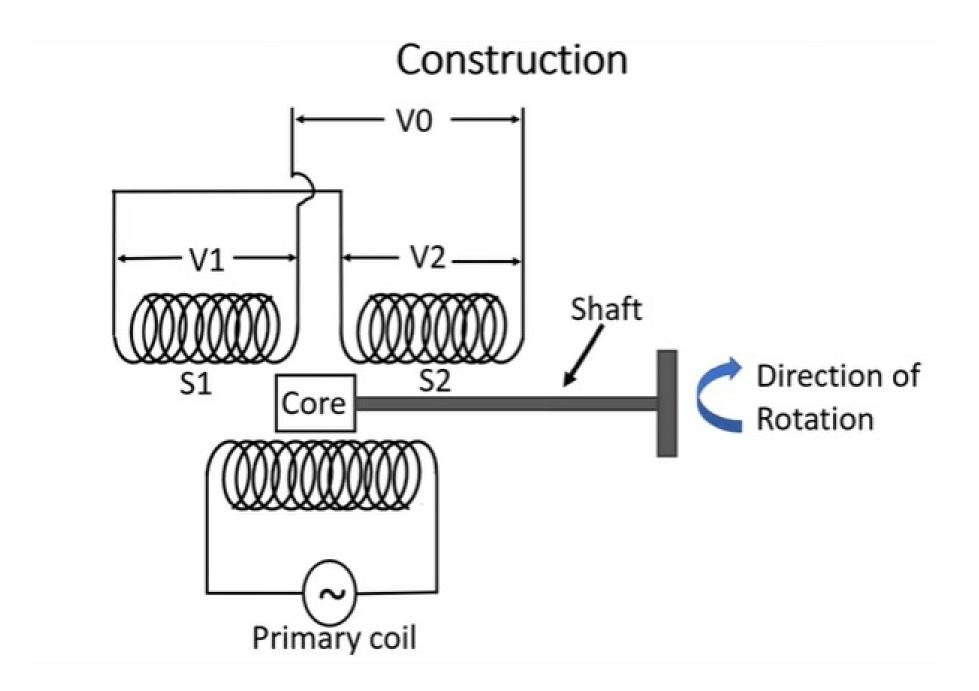
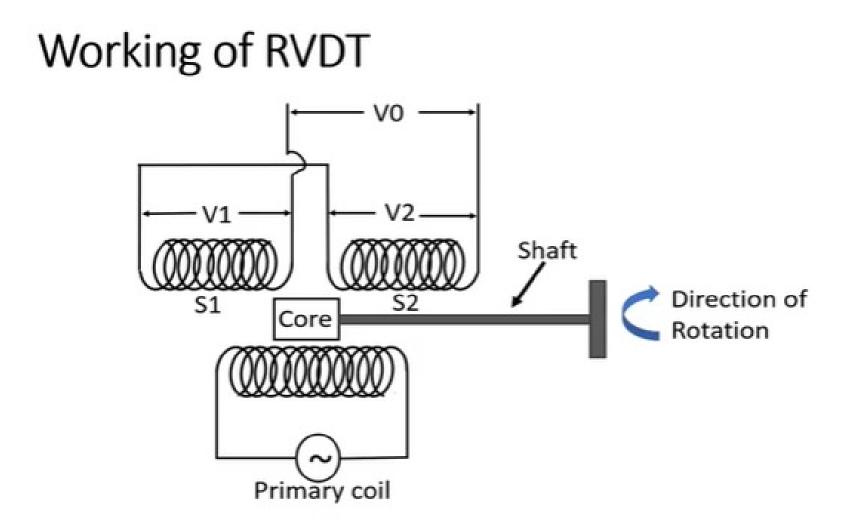
Rotary Variable Differential Transformer(RVDT)

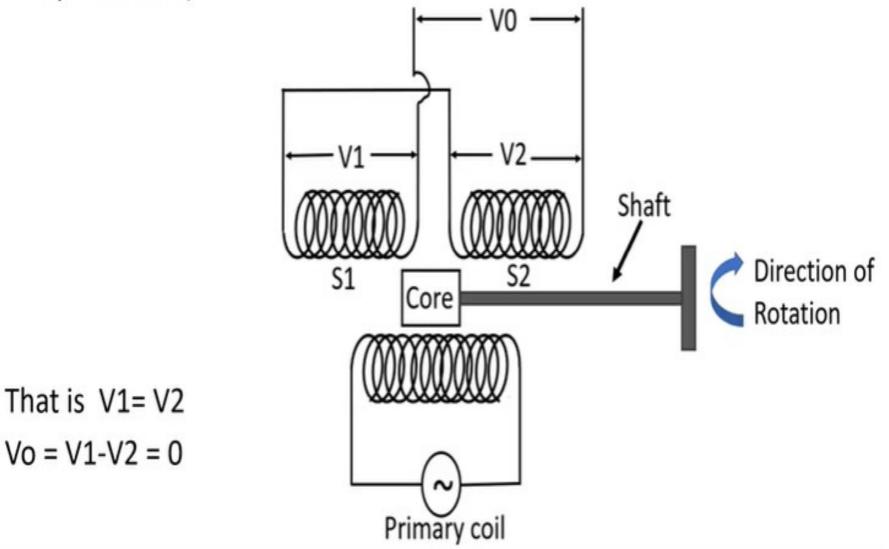
Riya Jacob K Assistant Professor on Contract Dept of Computer Applications



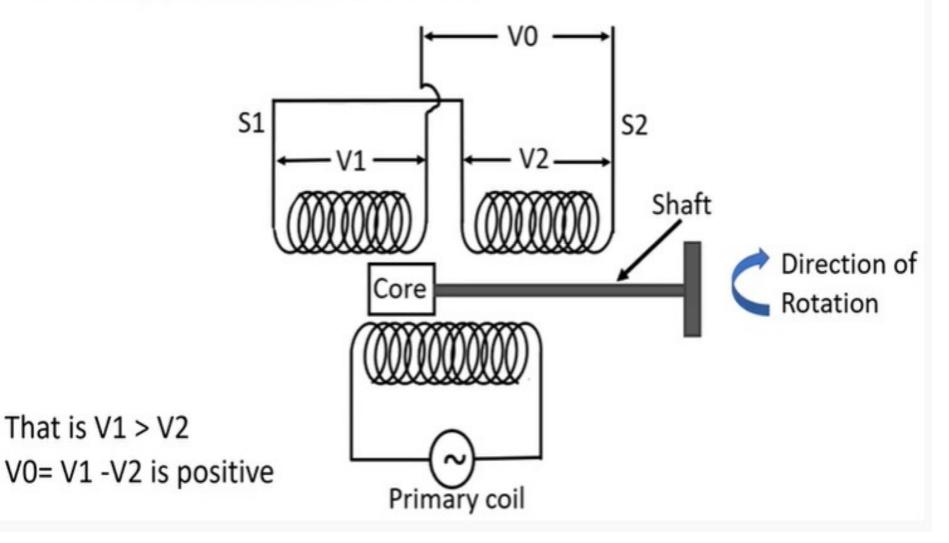


The differential output is V0 = V1 - V2

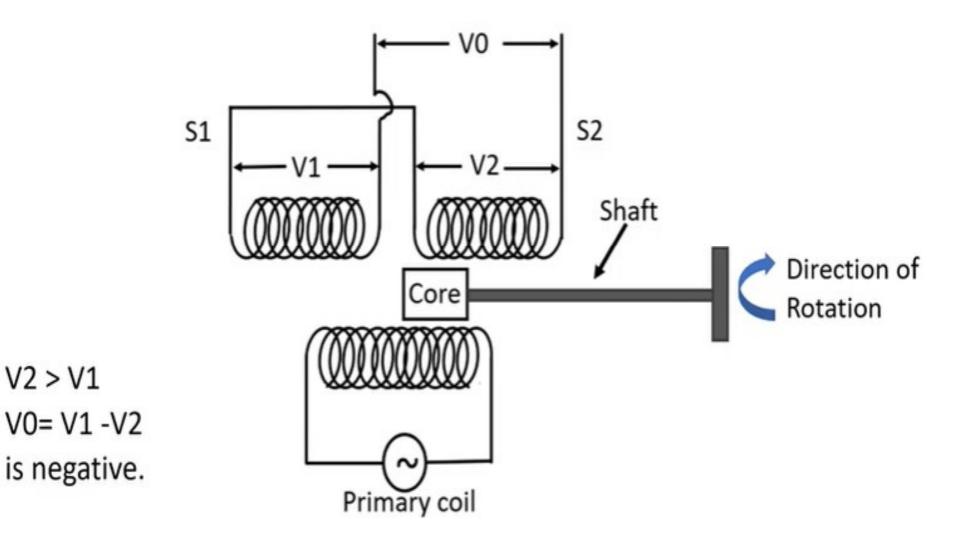
CASE 1: The core is at centre of the secondary windings (for no displacement)



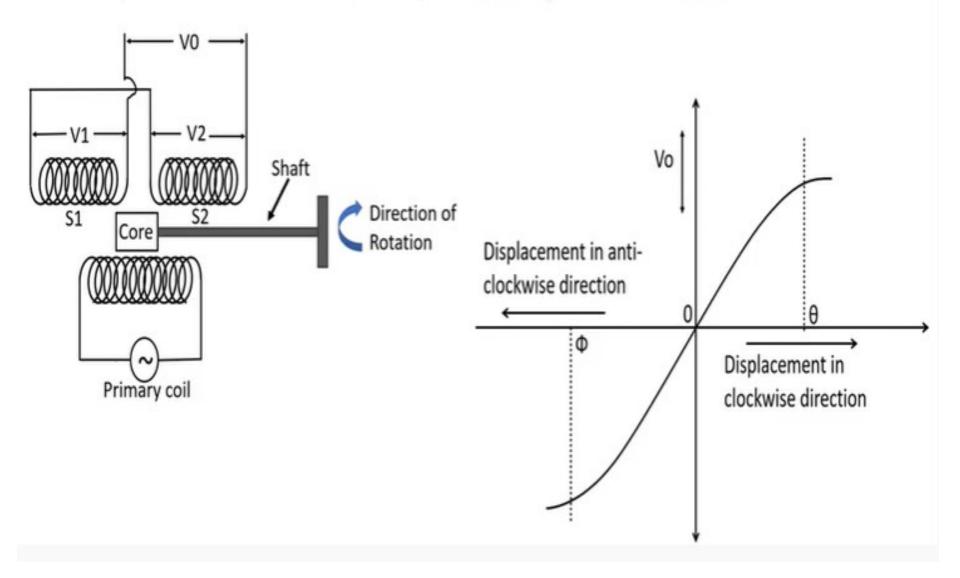
 CASE 2: The core position is towards the S1 windings of the secondary (for clockwise movement)



 CASE 3: The core position is towards the S2 windings of the secondary (for anti-clockwise movement)



The displacement versus output voltage of an RVDT



- Advantages
- High stability
- Long life
- Compact
- Strong
- Low cost
- Resolution infinity
- High Linearity

Disadvantages

- Screw type core- Chance for friction and leads to wear and tear
- Only detected the angles in between -40 and + 40. Other ranges will not detected.

Thank you