ENGR 3421: ROBOTICS I

Encoder

Dr. Lin Zhang

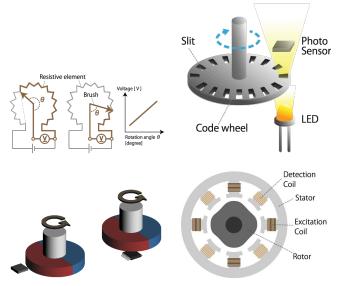
Department of Physics and Astronomy University of Central Arkansas

September 28, 2021



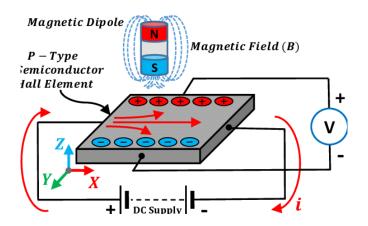


Types of Encoder



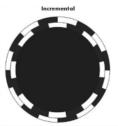


Hall Effect





Absolute Encoder vs. Incremental Encoder





Absolute	Incremental
More complicated	Simpler
Output position and velocity	Output velocity and displacement (optionally direction)
Fixed origin	Floating origin
Lower cost	More expensive



Quadrature Encoder

