

# RBE 2002 Pre Lab 2

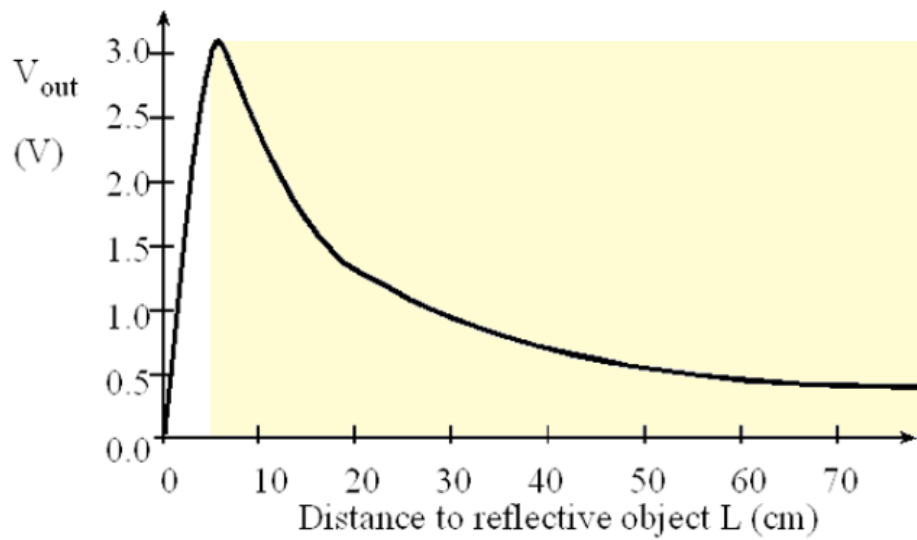
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1.

- Average supply current of IR:  $I_{CC} = 30mA$
- Working current of Sonar: 15 mA

2.



Yellow shaded area: Useful Measurements

Figure 1: Distance-voltage curve of IR distance sensor.

3.

$$d = T \frac{340M/S}{2}$$

4.

```
int ultrasonicMedian(float a, float b, float c, float d, float e) {  
    sort(a,b);  
    sort(d,e);
```

```

    sort(a,c);
    sort(b,c);
    sort(a,d);
    sort(c,d);
    sort(b,e);
    sort(b,c);

    return c;
}

```

5.

