$\frac{9}{16} = 0.3125$   $\frac{5}{4} = 1.25$  $\frac{5}{8} = 0.625$   $\frac{5}{2} = 2.5$ 

Vin = S

|             | - ( \frac{\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} \) | (Experiment) | Simulation<br>(Experiment) |            |
|-------------|---------------------------------------------------------------------|--------------|----------------------------|------------|
| Input State | Equation                                                            | Output       | Output                     | Experiment |
| 0           | 0                                                                   | Ö            | 0.002                      | 0          |
| 1           | 5/16                                                                | - 0.3125     | -0.31                      | -0.307     |
| 2           | 5/8                                                                 | -0.625       | -0.623                     | +6.620     |
| 3           | 5/9 + 5/16                                                          | - 0.9375     | - 0.935                    | -0.927     |
| 4           | 5/4                                                                 | -1.25        | 1.25                       | -1.24      |
| 5           | 9/4 + 3/16                                                          | - 1.5625     | - 1.56                     | -1,55      |
| (0          | 5/4 + 5/8                                                           | - 1.875      | - 1.87                     | - 1.86     |
| 7           | 5/4+5/8+5/6                                                         | - 2.1875     | - 2.19                     | - Z.17     |
| 8           | 5/2                                                                 | -2.5         | - 2.50                     | - 2,49     |
| 9           | 5/2 + 3/16                                                          | - 2.8175     | - 2,81                     | - 2,81     |
| 10          | 5/2 + 5/8                                                           | - 3.125      | - 3.12                     | - 3.12     |
| 11          | 5/2+ 3/8+ 3/6                                                       | - 3.4375     | -3.44                      | - 3.42     |
| 12          | 3/2 + 3/4                                                           | -3.75        | -3.75                      | - 3.74     |
| 13          | 5/2+ 5/4 + 5/16                                                     | -4.0625      | -4.06                      | - 4.05     |
| 14          | 5/2 + 5/4 + 5/8                                                     | -4,375       | -4.37                      | - 4,36     |
| 15          | 9/2 + 9/4 + 9/8+9/                                                  |              | -4.69                      | -4.66      |

Siddharly



