

Chapter 1

Solutions: The Digital Abstraction

1.1 (0.3.2.2), the worst case noise margin is larger

- 1.2**
1. $0.5V$
 2. $-0.5V$
 3. $0.7V$
 4. $0.4V$

1.3 $V_N \leq 0.4V$

1.4 GNDA can be $0.2V$ lower than GNDB or or $0.3V$ higher

1.5

$$\begin{aligned} \max \left| \frac{dV_{out}}{dV_{in}} \right| &= \frac{V_{OH} - V_{OL}}{V_{IH} - V_{IL}} \\ \max \left| \frac{dV_{out}}{dV_{in}} \right| &= \frac{2.1 - 0.2}{1.7 - 0.7} = 1.9 \end{aligned}$$

1.39

000	68
001	70
011	72
010	74
110	76
111	78
101	80
100	82

Digital Design A Systems Approach Solution Manual

**Thirumalaisamy P.
Velavancorresponding**



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