190410102 苏色自动化阳至数电常八章

$$28.2 \quad V_0 = -\frac{V_{REF}}{2n} \cdot D_n = \frac{1}{2} \left( d_3 \cdot 2^3 + d_2 \cdot 2^2 + d_1 \cdot 2' + d_0 \cdot 2^\circ \right)$$

得d3,d2,d1.d0分别为1日于产生模拟电压值分别为4V,2V,1V,0,5V

$$208.4 \quad V_0 = -\frac{V_{REF}}{2^n} \cdot D_n$$

全0时  $V_0=0$ , 全1日  $V_0=-\frac{2^{10}-1}{210}(-10V)=9.99V$ , 输出电压变化范围为  $0\sim9.99V$ 

若要使输出电压变化范围缩小一半,可采取:0VREF,减小的一半,即改为一5V

② 放馈电阻使用外置电阻, 阻值分号

距8.5 dad8drd6=Q3Q2Q1Qo 依收3000,0001,0010,0011,0100,0101,0110, 0111, 1000, 1001, 1010, 1011, 1100, 1101, 1110, 1111

d= d+d3d2 d1d0=00000

Vo= - VREF Jio か体的の; 0.625V; 1.25V; 1.875V; 2.5V; 3.125V; 3.75V; 4.375V;

5V; 5.625V; 6.25V; 6.875V; 7.5V; 8.125V; 8.75V; 9.375V;

$$268.11 \ V_0 = -\frac{D_n}{2^n} \cdot V_1 \ t_2 A_v = \frac{V_0}{V_1} = -\frac{D_n}{2^n} = -\frac{1}{2^{10}} \left( 2^{9} d_9 + 2^{8} \cdot d_8 + \dots + 2^{9} \cdot d_9 \right)$$

$$Av 取婚范围为-0.999~0 (-\frac{20-1}{210}~0)$$

题8.15 最大量化设差为 \_\_\_\_\_ VREF IT \\ \(\text{REF}\) \\ \(\text{TII}\)

题8.16 
$$t = (n+2)CLk = (n+2) \cdot f = \frac{12}{1\times 10^6} s = 12 \text{ MS}$$