## MCU principle 1

## 1-1 二进制转化成十进制

(1) 
$$101101.10(B)$$
  
=  $1 \times 2^{5} + 0 \times 2^{4} + 1 \times 2^{3} + 1 \times 2^{2} + 0 \times 2^{4} + 1 \times 2^{9}$   
+  $1 \times 2^{7} + 0 \times 2^{-2}$   
=  $45 + 0.5$   
=  $45.5(D)$ 

$$= 1 \times 2^{2} + 1 \times 2^{1} + 1 \times 2^{0} + 1 \times 2^{-1} + 1 \times 2^{-2} + 1 \times 2^{-3} = 7 + 0.875 = 7.875$$

## 1-2 十进制 轻化成二进制