Analog to Digital Converter (9A)

Please send corrections (or suggestions) to youngwlim@hotmail.com.

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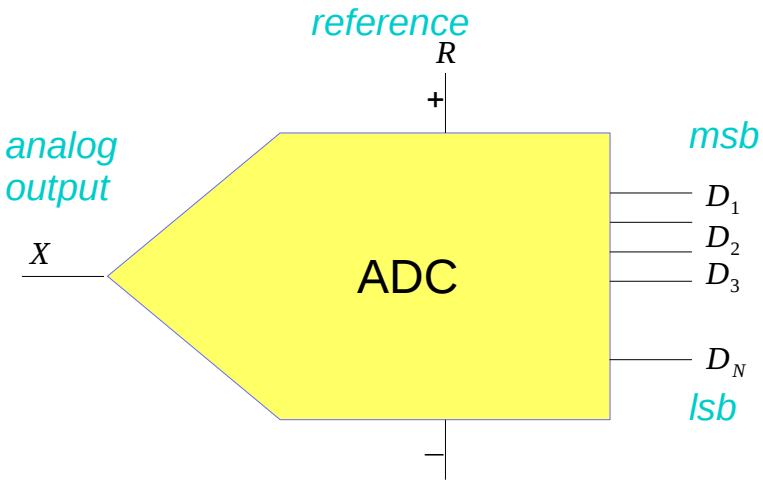
Make a binary string



$$X_Q = R\left(D_1 2^{-1} + D_2 2^{-2} + \cdots + D_N 2^{-N}\right)$$

$$\boldsymbol{D} = [0,\ 0,\ \cdots,\ 0]$$
$$\boldsymbol{D} = [0,\ 0,\ \cdots,\ 1]$$
$$\boldsymbol{D} = [1,\ 0,\ \cdots,\ 0]$$
$$\boldsymbol{D} = [1,\ 1,\ \cdots,\ 1]$$

References

[1] http://en.wikipedia.org/
[2] http://planetmath.org/
[3] M.L. Boas, “Mathematical Methods in the Physical Sciences”