Answer on Question \#50707, Physics, Electric Circuits
8.
a) Convert 0010001010000110 (BCD) into its binary equivalent and then divide it by 100102. Express your result in octal equivalent.
b) Design a half adder circuit using only NAND gates.

Answer:
a)

$$
\begin{gathered}
0010001010000110_{b c d}=2286_{10}=100011101110_{2} \\
\frac{2286_{10}}{100102_{10}}=0.228 \cdots 10=0.0011101 \cdots 2
\end{gathered}
$$

b)
http://www.electronicshub.org/half-adder-and-full-adder-circuits/


