4 FRIDAY • JANUARY '13

WEEK - 1

$Q = \eta V I$

$= \cancel{0.6 \times}$

$Q_f = \frac{V \times I \times \eta}{\sqrt{\pi} \times 10^3} \cdot \frac{6 Q_{net} f_f \sqrt{3}}{abc_f \pi \sqrt{\pi}}$

$Q_r = \frac{6 Q_{net} f_r \sqrt{3}}{ab e_r \pi \sqrt{\pi}}$

$Q_f = Q_f \times \exp\left[\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c_f^2}\right]$

$q_r = q_r \times \exp\left[x^4/a^2 + y^2/b^2 + z^2/c_r^2\right]$

DEC 2012

JANUARY '13 • SATURDAY

$c_f = 0.003\ m$

$c_r = 0.006\ m$

$b = 0.001\ m$

$a = 0.00305\ m$

$f_f = \frac{2 \times c_f}{c_f + c_r} = 0.6$

SUNDAY

Epiphany (Spain)

$f_r = 2 - f_f$ $\quad f_f + f_r = 2$

$= 1.4$

FEB 2013

ONDAY • JANUARY '13

JANUARY '13 • TUESDAY 8

WEEK - 2

Dimension.

$0.15 \times .075 \times .003\ m$

$P = \eta \times V \times I$

$= 0.6 \times 24 \times 100$

$= 1440\ W$

$Q_f = \frac{6 \times Q \times f_f \sqrt{3}}{a \times b \times c_f \times \pi \sqrt{\pi}}$ $= W/m^3$

m m m

body tissue

$= \frac{6 \times 1440 \times 0.6 \times \sqrt{3}}{0.00305 \times 0.001 \times 0.003 \times \pi \sqrt{\pi}}$

$= 1.7636 \times 10^{11}\ \Omega/m^3$

FEB 2013

9 WEDNESDAY • JANUARY '13

WEEK - 2

$Q_r = \frac{6 \times Q_{net} \times f_r \sqrt{3}}{a \times b \times c_f \times \pi \sqrt{\pi}}$

$= \frac{6 \times 1440 \times 1.4 \times \sqrt{3}}{0.00305 \times 0.001 \times 0.006 \times 3.14 \sqrt{\pi}}$

$= 1.469 \times 10^{11}\ \Omega/m^3$

Velocity $= 2.44\ mm/s$

$= 0.00244\ m/s$