Problem Statement:

write a progrem to plat ratio of output power to the input power is frequency for different corner recombination life time.

$$F = 200 \text{ nHz}$$

$$ICC 200 \text{ nHz}) = 300 \text{ m}$$

$$C1 + (2T1 \times 200 \text{ m} \times 5/2)^{1/2}$$

$$= 47.153$$

2)
$$B O P T = \sqrt{3}$$
 $2 \pi T T$
 $= \sqrt{3}$
 $2 \pi \times 5 n$
 $= 53.13 \times 10 \text{ (MH2)}$

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BE B ELECT = 38.92 × 106 (MH2)

3)
$$Z_1 = 2 \times 10^{-6}$$

 $Pe(20MHz) = \frac{300 \times 10^{-6}}{1 + (2 \text{ tt} \times 20 \times 10^{-6})}$

Pe (200MH2) = 290.95 UN

b) est
$$f = 100 \text{ MH2}$$

 $Pc(100 \text{ MH2}) = \frac{300 \times 10^{-6}}{(1 + (2 \text{ T} \times 100 \times 10^{-6}))}$

Pe (100 MM2) - 186.803 LLW

Pe (200 MM2) = 110.91 ew

and electrical pandwidth for the device 3. Also evolvete all the above prometers Avorega votults WHz WHz corries scomoptical Electrical BW BW 5ns 254.01 90.99 47.15 55.13 30.98 2~3 290.95 186.80 110.90 137.93 97.46