

⑥ Push-Pull Amplifiers :

- The push-pull configuration is used to eliminate the distortion introduced by the non-linear dynamic characteristics.
- In the push-pull circuit the excitation is introduced through a center-tapped transformer. The Q_1 and Q_2 are assumed identical.

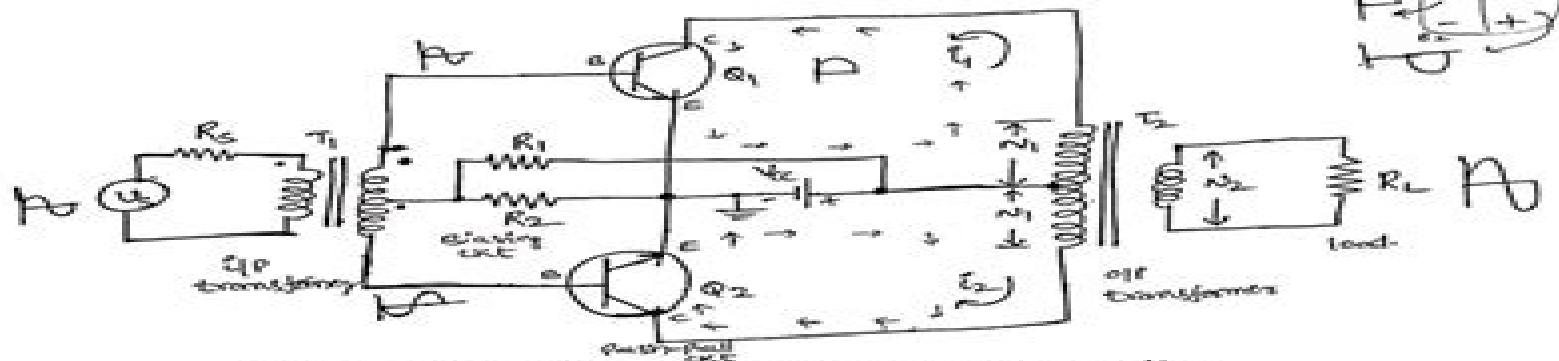


fig: Two-transistors in a push-pull configuration.

- When, the signal on transistor Q_1 is positive, the signal on Q_2 is negative by an equal amount.
- Consider an E/P signal (base current) of the form $i_{b1} = I_{bm} \cos \omega t$ applied to Q_1 . The output current is given by

$$i_1 = I_C + B_0 + B_1 \cos \omega t + B_2 \cos 2\omega t + B_3 \cos 3\omega t + \dots \quad \text{--- (1)}$$

The corresponding E/P signal to Q_2 is $i_{b2} = -i_{b1} = I_{bm} \cos(\omega t + \pi)$. Then the output current is obtained by replacing ωt by $\omega t + \pi$ in eq (1).

$$\text{i.e. } i_2(\omega t) = i_1(\omega t + \pi) \quad \text{--- (2)}$$

$$i_2 = I_C + B_0 + B_1 \cos(\omega t + \pi) + B_2 \cos(2\omega t + \pi) + B_3 \cos(3\omega t + \pi) + \dots \quad \text{--- (3)}$$

$$= I_C + B_0 - B_1 \cos \omega t + B_2 \cos 2\omega t - B_3 \cos 3\omega t + \dots$$

\therefore The i_1 and i_2 currents are in opposite direction through the o/p transformer primary windings.

- The total output current is proportional to the difference between the collector currents in the two transistors. That is,

$$i = k(i_1 - i_2) = k[I_C + B_0 + B_1 \cos \omega t + B_2 \cos 2\omega t + B_3 \cos 3\omega t - I_C - B_0 + B_1 \cos \omega t - B_2 \cos 2\omega t + B_3 \cos 3\omega t - \dots]$$

$$= k[2B_1 \cos \omega t + 2B_3 \cos 3\omega t + \dots] = 2k[B_1 \cos \omega t + B_3 \cos 3\omega t + \dots]$$

Electronic Circuit Analysis A First Course

Jianjun Gao



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