

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.

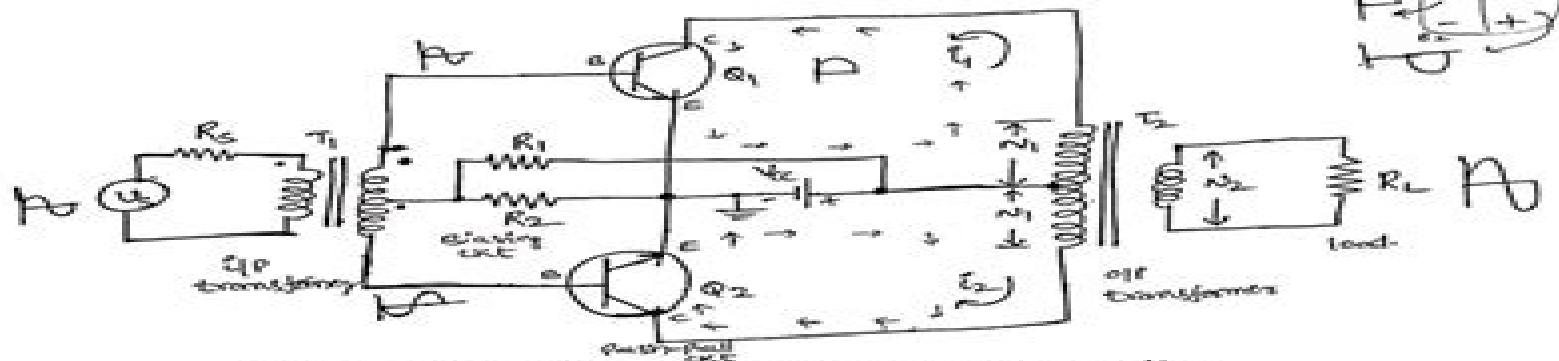


fig: Two-transistors in a push-pull configuration.

- 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

**Bohdan Borowik, Mykola
Karpinsky, Valery Lahno, Oleksandr
Petrov**

Electronic Circuit Analysis A First Course:

Electronic Circuit Analysis James T. Wade, John Ellery Clark, Paul Lindsay Edwards, 1970 *A FIRST COURSE IN ELECTRONICS* KHAN, ANWAR A. , DEY, KANCHAN K., 2006-01-01 This book provides a comprehensive introduction to the fundamental principles of modern electronic devices and circuits It is suitable for adoption as the textbook for the first course in electronics found in most curricula for undergraduate physics and electronic science students It also covers several topics of electronics being taught at the postgraduate first year level in physics Besides the students pursuing degree or diploma courses in electrical electronics and computer engineering will find this textbook useful and self contained The text provides a thorough and rigorous explanation of characteristics and parameters of the most important semiconductor devices in general use today It explains the underlying principles of how different circuits work providing valuable insights into analysis of circuits so essential for solving design problems Coverage includes all the basic aspects of analog and digital electronics plus several important topics such as current mirrors and their applications amplifiers with active load composite devices and their equivalent models and applications op amp mathematical and circuit modelling and logic circuits analysis Key Features Emphasizes underlying physics and operational characteristics of semiconductor devices Numerous solved examples and review questions help the students develop an intuitive grasp of the theory Sufficient number of conventional and short answer type model questions included in each chapter acquaint the students with the type of questions generally asked in examinations *Electronic Circuit Analysis* James T. Wade, Paul L. Edwards (M. Eng. Sc.), John Ellery Clark, 1973

Electric Circuit Analysis T. V. Narmadha, 2006 *ELECTRICAL CIRCUIT ANALYSIS* MAHADEVAN, K., CHITRA, C., 2018-01-01 The book now in its Second Edition presents the concepts of electrical circuits with easy to understand approach based on classroom experience of the authors It deals with the fundamentals of electric circuits their components and the mathematical tools used to represent and analyze electrical circuits This text guides students to analyze and build simple electric circuits The presentation is very simple to facilitate self study to the students A better way to understand the various aspects of electrical circuits is to solve many problems Keeping this in mind a large number of solved and unsolved problems have been included The chapters are arranged logically in a proper sequence so that successive topics build upon earlier topics Each chapter is supported with necessary illustrations It serves as a textbook for undergraduate engineering students of multiple disciplines for a course on circuit theory or electrical circuit analysis offered by major technical universities across the country SALIENT FEATURES Difficult topics such as transients network theorems two port networks are presented in a simple manner with numerous examples Short questions with answers are provided at the end of every chapter to help the students to understand the basic laws and theorems Annotations are given at appropriate places to ensure that the students get the gist of the subject matter clearly NEW TO THE SECOND EDITION Incorporates several new solved examples for better understanding of the subject Includes objective type questions with answers at the end of the

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