

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.

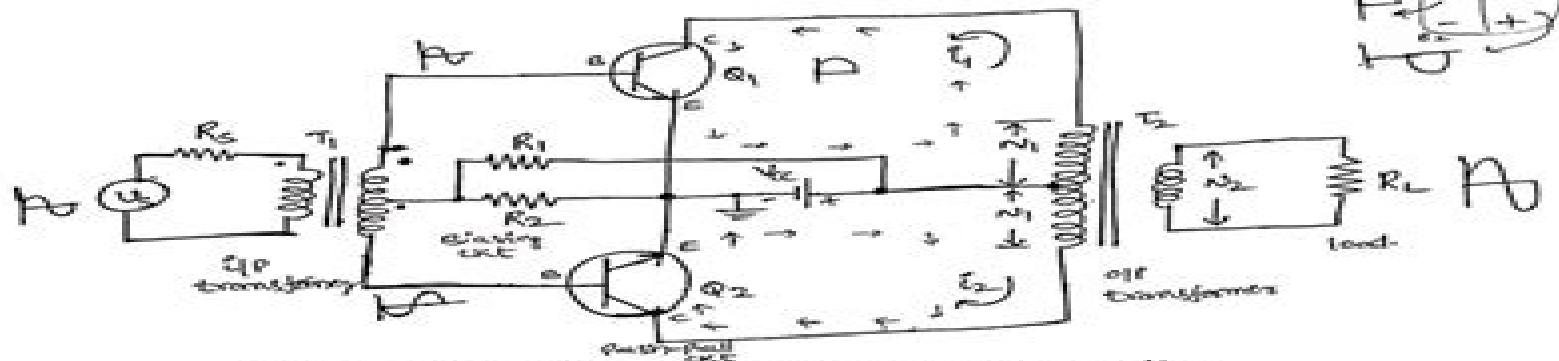


fig: Two-transistors in a push-pull configuration.

- 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

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

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).

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

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

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

\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

J Ma



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

chapters Provides an appendix on Laplace Transforms *Electric Circuits -a First Course In Circuit Analysis For Electrical Engineers* Mit, A First Lab in Circuits and Electronics Yannis P. Tsividis, 2018-03-07 Written by an award winning educator and researcher the sixteen experiments in this book have been extensively class tested and fine tuned This lab manual like no other provides an exciting active exploration of concepts and measurements and encourages students to tinker experiment and become creative on their own This benefits their further study and subsequent professional work The manual includes self contained background for all electronics experiments so that the lab can be run concurrently with any circuits or electronics course at any level It uses circuits in real applications which students can relate to in order to motivate them and convince them that what they learn is for real As a result the material is not only made interesting but helps motivate further study in circuits electronics communications and semiconductor devices EXTENSIVE INSTRUCTOR RESOURCES Putting the Lab Together is an extensive resource for instructors who are considering starting a lab based on this book Includes an overview of a typical lab station suggestions for choosing measurement equipment equipment list with relevant information and detailed information on parts required This resource is openly available Instructor s Manual includes hints for choosing lab TAs hints on how to run the lab experiments guidelines for shortening or combining experiments answers to experiment questions and suggestions for projects and exams This manual is available to instructors who adopt the book Electric Circuits Laboratory Manual Farzin Asadi, 2023-03-27 This book provides insights into practical aspects of electric circuits The author provides real world examples throughout this book The devices chosen for this book can be found in nearly all laboratories No expensive measurement devices are used throughout the book Someone who reads this book has a better understanding of practical aspects of electric circuits Chapter 1 introduces tools that will be used in the next chapters Chapter 2 studies the resistors and contains 9 experiments Chapter 3 studies the digital multimeters and contains 7 experiments Chapter 4 studies Kirchhoff s voltage current law nodal mesh analysis and Thevenin equivalent circuits This chapter contains 5 experiments Chapter 5 studies the first and second order circuits RC RL and RLC and contains 4 experiments Chapter 6 studies the DC and AC steady state behavior of electric circuits and frequency response of filters and has 5 experiments Chapter 7 studies magnetic coupling and transformers and contains 3 experiments Appendix A shows how different types of graphs can be drawn with MATLAB Appendix B reviews the concept of root mean square *Electric Circuits* Massachusetts Institute of Technology. Department of Electrical Engineering, 1940

Fundamentals of Modern Electric Circuit Analysis and Filter Synthesis Afshin Izadian, 2023-01-13 This textbook explains the fundamentals of electric circuits and uses the transfer function as a tool to analyze circuits systems and filters The author avoids the Fourier transform since this topic is often not taught in circuits courses General transfer functions for low pass high pass band pass and band reject filters are demonstrated with first order and higher order filters explained in plain language The author s presentation is designed to be accessible to a broad audience with the concepts of circuit analysis

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