

# GATE 1990 PAPER



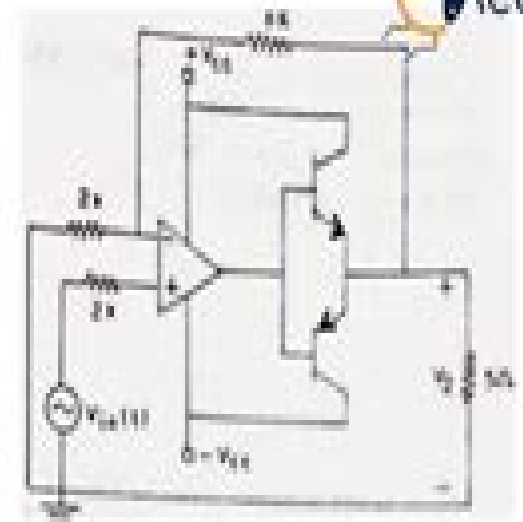
A pick up signal is power amplified using a complementary symmetry push pull amplifier and fed to a  $5\ \Omega$  loud speaker as shown.

The specifications of power transistors are as follows:

$I_{Cmax}$  = Maximum collector current = 2 Amps and  $P_{Cmax}$  = Maximum power dissipation = 1 Watt.

Find the maximum power delivered to the loud speaker, if the maximum output voltage subject to OP-AMP voltage limitations is 15 volts.

If the transistors are mounted on a heat sink, so that  $P_{Cmax}$  changes to 3 Watts. What will be the new value of the maximum power delivered?



Since the output of opamp is max 15 V

The output power of power amplifier is

$$P(ac) = \frac{V_m^2}{2 R_L}$$

$$V_m = 15V \text{ and } R_L = 5 \quad P(ac) = 22.5 \text{ Watt}$$

$$\begin{aligned} P(dc) &= \text{DC input power} = V_{cc} \left( \frac{2 I_m}{\pi} \right) \quad \text{if } V_m = V_{cc} \\ &= \frac{2 (V_{cc}^2)}{\pi R_L} \\ &= 28.648 \text{ Watt} \end{aligned}$$

$$\begin{aligned} P_d(max) &= P(dc) - P(ac) \\ &= 28.648 - 22.5 \\ &= 6.148 \text{ W} \end{aligned}$$

this is total power dissipated by 2 transistor

$$P_d \text{ of 1 transistor} = 3.074 \text{ Watt}$$

ANS: Breakdown of transistor as selected transistor  $P_d = 1$  watt and required is  $P_d > 3.074$  Watt

With use of heat sink there is improvement of  $P_d = 3$  Watt still less than required hence again there will be breakdown



# How Solve Power Amplifier Problem By Floyd

**JG Myers**



## How Solve Power Amplifier Problem By Floyd:

*The Live Sound Manual* Ben Duncan,2002-03 Enhanced by a 15 000 word technical glossary a manual for creating quality sound for live performances covers such issues as analyzing venue needs and setting up and testing equipment Sound Reproduction Floyd E. Toole,2008 Covering designing listening experiences acoustics and psychoacoustics this book shows how to design the best possible listening experience for recording control rooms and home entertainment systems *Sound Reproduction* Floyd Toole,2009-10-28 First published in 2007 Routledge is an imprint of Taylor Francis an informa company

*ERDA Energy Research Abstracts* United States. Energy Research and Development Administration. Technical Information Center,1976 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration,1976 ERDA Research Abstracts United States. Energy Research and Development Administration,1976

IEEE International Symposium on Circuits and Systems IEEE Circuits and Systems Society,2003 These volumes relate to matters discussed during the 2003 IEEE International Symposium on Circuits and Systems such as analogue circuits and signal processing communications multimedia systems and applications general and nonlinear circuits and systems and neural networks and systems EASTCON Record ,1971 Scientific and Technical Aerospace Reports ,1973 **Official Gazette of the United States Patent Office** United States. Patent Office,1971 *Proceedings of the American Institute of Electrical Engineers* ,1928 Vols for 1887 1946 include the preprint pages of the institute s Transactions The Guitar Player Book Michael Molenda,Mike Molenda,2007-10 An encyclopedic reference for guitarists written by the editors of the world s most respected guitar magazine offers valuable information for improving their playing and features exclusive interviews with masters such as Chet Atkins Duane Allman Jimi Hendrix Frank Zappa and more Original *Monthly Catalog of United States Government Publications* ,1966 **Amplifiers** Tom Finegan,2021-10-19 Wall Street Journal bestseller Discover how to enable strategic change efforts by relying on your best people In *Amplifiers* entrepreneur and expert management and technology consultant Tom Finegan delivers an insightful new way to think about human behavior in the execution of corporate transformations Through an exploration of the career journeys of several leaders and analyses of True Amplifiers in action the book demonstrates how to deliver strategic and transformative change by relying on the efforts of key exemplary followers This important book Explains the different ways that being a true amplifier is experienced by different ethnicities and genders Describes the Cell Concept of amplifiers and how they interact with other stakeholders of your organization Discusses the work of amplifiers across global industries and organizations Perfect for executives managers and other business leaders responsible for change management and strategic execution *Amplifiers* also belongs on the bookshelves of anyone who hopes to contribute to or lead organizations as they change direction *Health and Safety Leadership Strategy* Rosa Carrillo,2023-05-31 The purpose of this book is to awaken leaders to the unique opportunities now present in the areas typically delegated to Health and Safety It is a strategy to utilize existing resources to fully develop and engage human

potential to catapult business achievement The confluence of Covid 19 the resulting burnout the attention on diversity equity and inclusion generated by the Black Lives Matter movement and the great resignation continues to create openings to fundamentally change how we address personal development sustainable growth and social responsibility The argument within is that the better we manage the social aspects of the organization the better our business results Elucidating to the reader the societal shifts of workplace culture in recent years this text expertly analyzes the importance of mental health in the workplace whilst also explaining how management and HR departments can improve It examines who is responsible for generating psychological safety and provides relationship strategies that will improve performance The critiques in this text establish why it is imperative for business leaders to concentrate on how their company culture affects their employees and whether their employees feel safe seen and supported The concepts and practices in this book are the ones that leaders have used across the ages to create commitment accountability and excellence Managers will benefit from a deeper understanding of how these issues impact every aspect of organizational performance This book is essential reading for executives leaders and those interested in leadership They could be in the C suite operations health and safety and HR It is also directly relevant to organization development and change management specialists interested in including safety within their practice

**Communication and Electronics** ,1959      An Introduction to the Theory of Control in Mechanical Engineering R. H. Macmillan,2016-05-26 Originally published in 1951 and the first English book on the subject this textbook is aimed at both the specialist and non specialist alike and provides a thorough and detailed introduction on the principles that underlie the action of automatic controls servo mechanisms and regulators The early chapters provide a solid foundation to the theory of control and are in the most part descriptive introducing fundamental terminology and explaining the principles which underlie the operation of all control systems whilst in the last three chapters more advanced techniques are used to give an account of the methods employed by control engineers Modern contributions to the theory at the time are included and questions are set at the end of each chapter Giving a historical summary of the main landmarks in the development of control theory this book will be of value to anyone with an interest in the history of engineering      an introduction to the theory of control in mechanical engineering ,      **Journal of the Audio Engineering Society** Audio Engineering Society,2008 Directory of members published as pt 2 of Apr 1954 issue      *Complete Course in Professional Piano Tuning* Floyd A. Stevens,2001-06 A Burnham Publishers book

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