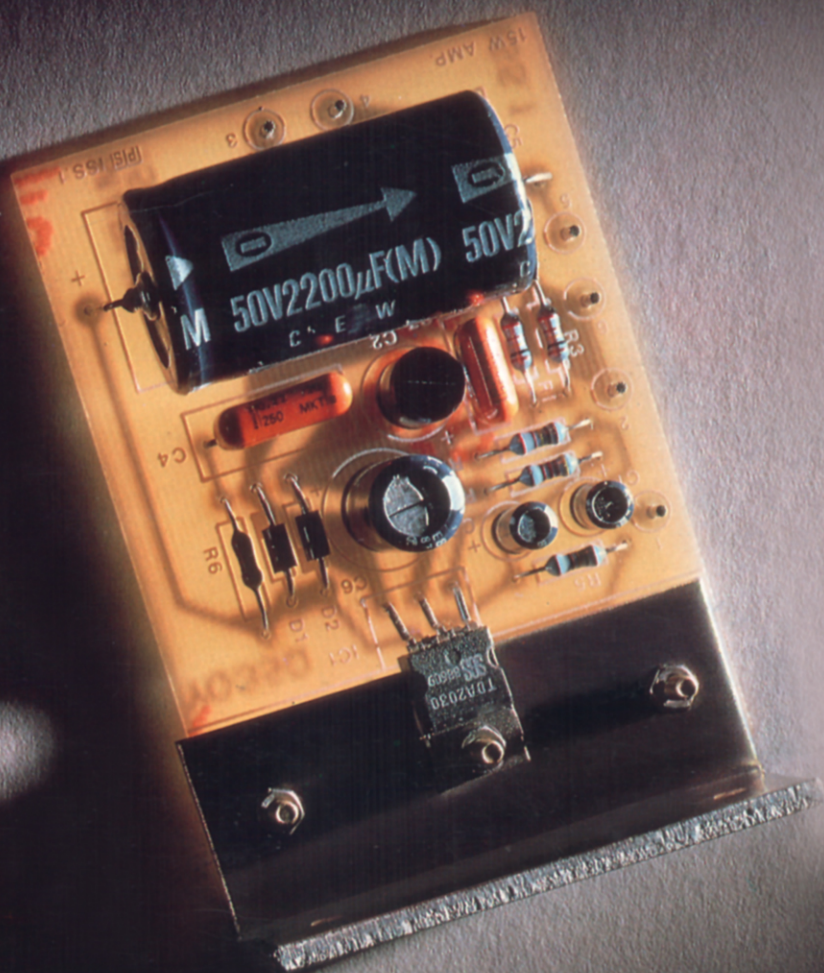


AUDIO IC CIRCUITS MANUAL

R. M. MARSTON



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Heinemann Professional Publishing Ltd
Halley Court, Jordan Hill, Oxford OX2 8EJ

OXFORD LONDON MELBOURNE AUCKLAND SINGAPORE
IBADAN NAIROBI GABORONE KINGSTON

First published 1989

© R. M. Marston 1989

British Library Cataloguing in Publication Data

Marston, R.M. (Raymond Michael), 1937–

Audio IC circuits manual.

1. Electronic equipment. Audio integrated
circuits

I. Title

621.381'73

ISBN 0 434 91210 7

Printed and bound in Great Britain by
Redwood Burn Limited, Trowbridge, Wiltshire

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Preface

A vast range of audio and audio-associated integrated circuits (ICs) are readily available for use by amateur and professional design engineers and technicians. This book is a single-volume guide to the most popular and useful of these devices. It deals with ICs such as low frequency linear amplifiers, dual pre-amplifiers, audio power amplifiers, charged-coupled device (CCD) delay lines, bar-graph display drivers, and power supply regulators, and shows how to use these devices in circuits ranging from simple signal conditioners and filters to complex graphic equalizers, stereo amplifier systems, and echo/reverb delay line systems, etc.

The book is specifically aimed at the practical design engineer, technician, and experimenter, as well as the electronics student and amateur, and deals with the subject in an easy-to-read, down-to-earth, non-mathematical but very comprehensive manner. Each chapter deals with a specific class of IC, and starts off by explaining the basic principles of its subject and then goes on to present the reader with in-depth looks at practical ICs and their applications.

The book is split into seven distinct chapters. Chapters 1 to 4 deal with pure 'audio' subjects, such as audio processing circuits, audio pre-amplifier circuits, and audio power amplifier circuits. Chapters 5 and 6 deal with the audio-associated subjects of light-emitting diode (LED) bar-graph displays (which can give a visual indication of signal levels, etc.) and CCD delay-line circuits (which can be used to give special sound effects such as echo and reverberation, etc.). Chapter 7 deals with power supply circuits for use in audio systems.

Throughout the book, great emphasis is placed on practical 'user' information and circuitry, and the book abounds with useful circuits and graphs; a total of over 240 diagrams are included. Most of the ICs and other devices used in the practical circuits are modestly priced and readily available types, with universally recognized type numbers.

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