

**CONTENTS - An Approach to Audio Frequency Amplifier Design - code 2001**

<b>title</b>	<b>page No.</b>
THE DESIGN OF AN AUDIO FREQUENCY AMPLIFIER	1
THE OUTPUT STAGE	1
Major Design Features	1
The Output Stage of a Domestic Amplifier	2
The Output Stage of a Public Address Amplifier	4
Output Stages for d.c./a.c. Amplifiers	7
Matching of Valves in Triode and Ultra-Linear Circuits	7
Recommended Precautions in Output Stage Design	9
THE INPUT STAGE	11
Design Requirements	11
THE INTERMEDIATE STAGES	12
Some Typical Intermediate Stage Circuits	12
THE POWER SUPPLY	16
Power Supply Categories	16
CHAPTER 2	
A 5-WATT JUNIOR AMPLIFIER	20
CHAPTER 3	
AMPLIFIERS OF 12 TO 14 WATTS	25
A 14W Ultra-Linear Amplifier	25
A 14W d.c./a.c. Amplifier	33
CHAPTER 4	
AMPLIFIERS OF 15 TO 30 WATTS	37
KT66 Triode Amplifier	37
Two 30W Ultra-Linear Amplifiers	40
A 25W d.c./a.c. Amplifier	44
CHAPTER 5	
AMPLIFIERS OF 50 TO 100 WATTS	51
Comparison of KT66 and KT88	51
KT88 50W Ultra-Linear Amplifier	53
KT55 50W Fixed Bias Ultra-Linear Amplifier	56
KT88 100W Fixed Bias Ultra-Linear Amplifier	60
CHAPTER 6	
CLASS B AMPLIFIERS OF 175 TO 200 WATTS	65
DA42 175W Amplifier	65
DA42 200W Amplifier	72
CHAPTER 7	
CLASS AB AMPLIFIERS OF 100 TO 300 WATTS	77

DA100 115-175W Class AB1 Amplifier	77
DA100 200-270W Class AB2 Amplifier	82
CHAPTER 8	
CLASS AB AMPLIFIERS OF 300 TO 1100 WATTS	86
V1505 300-450W Class AB1 Amplifier	86
V1505 600-1100W Class AB2 Amplifier	92
Quiescent Current in AB1 and AB2	96
Protection Against Bias Failure	96
CHAPTER 9	
PRE-AMPLIFIERS AND TONE CONTROL	97
The Purpose of a Pre-Amplifier	97
Pre-Amplifier Circuit No. 1	100
Pre-Amplifier Circuit No. 2	102
APPENDIX A	
MULTIPLE-PAIR PUSH-PULL AMPLIFIERS	112
APPENDIX B	
OUTPUT TRANSFORMERS AND STABILISATION	119
APPENDIX C	
VALVE RATINGS AND CHARACTERISTICS	122
APPENDIX D	
ABBREVIATIONS	126