

b. Vertical Antennas.

This is the second part of an article examining vertical antennas. In this part base impedances and methods of feeding and matching are dealt with rather comprehensively.

c. How Linear is a Linear Amplifier?

The author describes the term, Intermodulation Distortion, and indicates a test set up, employing a receiver, two tone audio gen., a panoramic adaptor and a dummy load which may be used to determine the i.m.d.

d. Solid State Coupling Methods.

A useful article covering the whys and wherefores of coupling circuits in solid state i.f. amplifiers.

QST., July, 1968.

a. Where did the Signal Go?

A treatment of radio wave propagation written especially for the beginner.

b. Some Ground Rules for Sweep Tube Lin. Amp. Design.

This article considers some techniques that can be applied to all TV sweep tubes suitable for use in lin. amps. A circuit is included using 6KD6s.

c. Kill that Mobile Noise.

An interesting article which includes a useful table describing nine commonly encountered noises, their causes and the recommended cures.

The Transistor Radio Handbook.

During the month a copy of The Transistor Radio Handbook, edited by Donald Stoner and L. Earnshaw, was purchased for the Library and as this contains some very interesting material I will review it briefly in the following paragraphs -

The book contains 172 pages broken up into the following chapters -

Inside Semiconductors.
Audio Amplifier Circuits.
R.F. Circuits.
Receivers.
RF Power Amplifiers.
Power Supplies.

The construction of several small receivers, suitable for the newcomer, and a rather sophisticated communications receiver is detailed in chapter 4. It is interesting to note that the editors have given consideration to the plight of any would be constructors from other than W land for they have included quite a lot of information on the construction and specifications of e.g. IF transformers and other items which would not be readily available outside of the U.S.A. No doubt Lester Earnshaw (a ZL) had a lot to do with this thinking.

The book also includes a few AM rigs and for the SSB man both a Phasing Exciter and a Filter Exciter. To complete the SSB side a VFO and a 40 Meter SSB Transceiver are featured.

The VHF enthusiast is not forgotten either for the following circuits and constructional information appears -

A 6 Meter Converter. A 2 Meter Converter, and A 2 Meter Transmitter.

In summary the book contains a wealth of information for the amateur or SWL and seems to be sufficiently comprehensive to prevent the contractor from having trouble through lack of necessary detail. I am sure that you will enjoy reading it.

Crosby (VK7CR).

1968 HAMFEST

Once again this annual amateur get-to-gether is just about with us. As in the past it will be conducted on Mr. Muirheads property at Campbell Town. The dates for the function are the 23rd and 24th November, so keep them free as the organizers assure me that it will be a very enjoyable week-end with fun for everyone.

LOW COST 80-40 METRE CONVERTER - FROM PETER COX.

This converter was designed for use with a broadcast receiver as tuneable IF. Cost may be kept low if components available at the Equipment Store use used. Their stocks include Xtals (suitable ones available for 30p), circuit board transistors (for 20p each), Xtal sockets, coil formers, winding wire, etc. Transistors marked 033 or 034, or the small VHF units, should be satisfactory for this converter.

<u>Crystals</u>	<u>XTAL FREQUENCY</u>	<u>IF OUTPUT</u>
40 METRES	5.7 MC	1.3-1.5 MC
	5.8 MC	1.2-1.4 MC
	5.9 MC	1.1-1.3 MC
	6.0 MC	1.0-1.2 MC
+80 METRES	4.8 MC	1.0-1.3 MC
	4.9 MC	1.1-1.4 MC
	5.0 MC	1.2-1.5 MC
	5.1 MC	1.3-1.6 MC

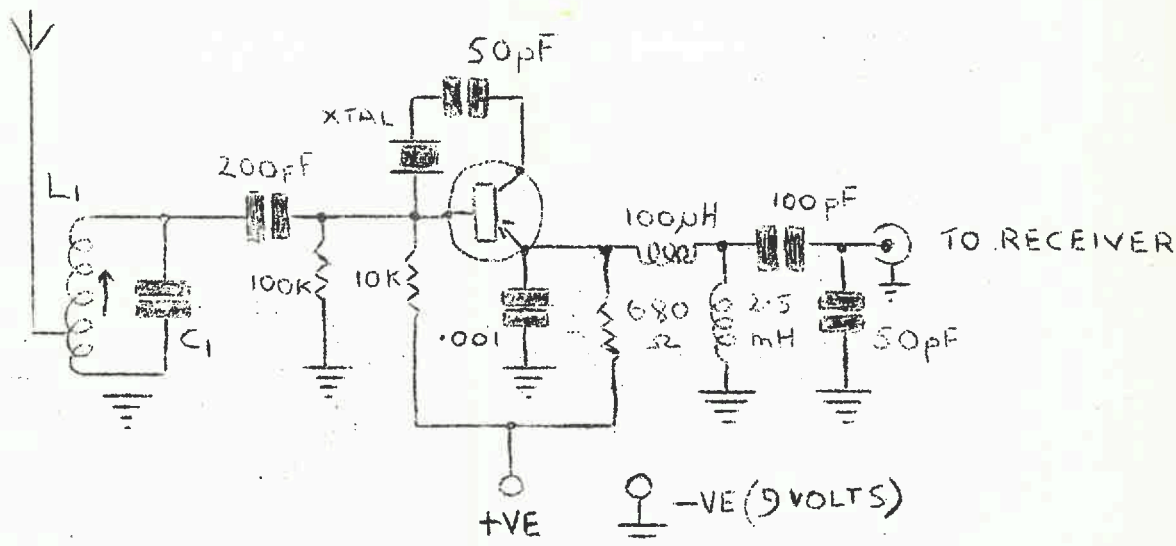
+ REVERSE TUNING ON 80 METRES.

<u>COILS</u>	<u>BAND</u>	<u>L1</u>	<u>TAP (TURNS FROM GROUND)</u>	<u>C1</u>
	3.5 MC	40 Turns	10 Turns	175 pF
	7.0 MC	20 Turns	5 Turns	100 pF

Coils close wind (28 gauge) on slug tuned 3/8" former.

Alignment

A general coverage receiver may be used for this. With Xtal unplugged, adjust slug of L1 for strongest signals, using converter as a pre-amplifier. Plug in Xtal, check for oscillations and it's ready to use.

FOR SALE

Equipment ex VK7BX.

- 1 BC453B Command RX 200-500 KH/z \$10-00
- 1 350V Power supply less rect. 100 mA \$10-00
- 2 122 Sync. Vib. Power supplies,
one complete, one less relays 2 for \$7-50
- 1 Imperial Model 58 Typewriter \$10-00
- 1 Banda Spirit Duplicator - What Offer?

Quantity of relays, key switches, Uniselector, electros and other miscellaneous components - price as offered.

All goods are in care of Mike Jenner VK7FB.

'Phone 441611 or C/- &ZL Private Bag 28
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