

Inductance Diagrams

THE details of diagrams on the opposite page are:—

Fig. 1.—Optimum diameter of wire for coils, the number of turns for which were given on August 23. Top.—Coils of 200 microhenries. Middle.—280 microhenries. Bottom.—340 microhenries. Curve A relates to coils of 3-inch diameter. Curve B to coils of 2.5-inch diameter. Curve C to coils of 2-inch diameter. Winding lengths indicated along bottom of each chart.

Fig. 2.—Charts referred to in diagram 1 showing the number of turns for inductance coils. Top.—Coils of 200 microhenries. Middle.—280 microhenries. Bottom.—340 microhenries. Curve A relates to coils of 3-inch diameter. Curve B to coils of 2.5-inch diameter. Curve C to coils of 2-inch diameter. Winding lengths indicated along bottom of each chart.

Questions and Answers

L. McL. (Timaru): My 3-valve set worked satisfactorily for the first six months, and since having adapted an eliminator and a pentode the set seems to burst into oscillation when called upon to take more than usual volume. I have had two radio men to see the set but they cannot solve the mystery.

A.: If two radio men (we hope they are experts) visited your set and examined it you can hardly expect us to help you without seeing the set. From our knowledge of this set we suspect the screen-grid valve. Try replacing it with another and altering the voltages.

FOR SALE OR EXCHANGE

The rate for small advertisements under this heading is 1/6 cash for 20 words, and twopenny for every other word thereafter.

WANTED to Sell, Philips "B" & "C" Battery Eliminator, almost new, tested 100 per cent. Price £8 complete. Owner purchased all-electric. Reply A. Brown, Box 937, Wellington, or Phone 28-509.

ALL-ELECTRIC 2-Valve Local Station Set, complete with Loudspeaker. Excellent reception and good quality. Set was built by thoroughly qualified expert, and is guaranteed. £12. "Reception," c/o "Radio Record."

SCREEN-GRID RADIO CHASSIS, £26, Triple S.G. R.F., Power Detection, 245's Push-pull. Write for details. Royds-Howard Co., Christchurch.

FIGURE of willowy grace by taking Youth-o-Form capsules. 6/6 posted. A. C. Timms, Chemist, Pahiatua.

"A. B. C." ELIMINATORS, with Westinghouse Rectifiers, make Battery Radio superior to most A.C. Radios. Quotations gladly given. Johns, Ltd., Chancery Street, Auckland.

YOUTH-O-FORM reduces weight 20lbs. six weeks. 6/6 posted. A. C. Timms, Chemist, Pahiatua.

9D. 4½-volt Torch Batteries, Round Units 8d., 9-volt C, 3/-, No. 6 1/11 posted. Royds-Howard Co., Christchurch.

OBESITY—Reduce 20lbs. 6 weeks. Take Youth-o-Form. 6/6 posted. A. C. Timms, Chemist, Pahiatua.

"UPCO" Pick-up, complete with tone-arm and volume control. Guaranteed perfect condition—a splendid instrument—£8/10/-. Owner purchased combination. "Pick-up," Box 1032, Wellington.

Advisory Committees Meet

Some Interesting Conclusions Reached

3YA Musical and Dramatic.

MR. W. H. DIXON (representing the Royal Christchurch Musical Society) was voted to the chair at the meeting of the 3YA Musical and Dramatic Committee on Wednesday, September 3, Mr. T. Dent being unavoidably absent. There were present: Dr. F. A'Court (Harmonic Society), Mr. R. J. Loughnan (Male Voice Choir), Mr. Geo. Manning (W.E.A.), Mr. G. L. Donaldson (Professional Musicians), Mr. A. F. O'Donoghue (station director, 3YA), and Mr. C. S. Booth (secretary). Appreciation of the company's interest in music week was expressed by several members on behalf of their societies.

Reference was made to the very successful debate carried out by 4YA and 3YA on relay between the two stations, and the suggestion was made that more of a similar nature should be arranged. The committee fully discussed the programmes submitted during music week. A number of suggestions in regard to studio programmes were advanced, also subjects for talks.

4YA Primary Productions.

A MEETING of the 4YA Primary Productions Committee was held on Friday, August 29, there being present: Mr. R. B. Tennent (chairman), Mrs. Robin Allan (representing Home Science Extension Department of Otago University), Mr. A. O. Cameron, Mr. S. P. Cameron, Mr. L. W. McCaskill, and Mr. J. Mackenzie, station director. An apology for absence was received from Mr. James Begg, and a welcome was extended to Mr. S. P. Cameron (secretary to the Farmers' Union and president of the Chamber of Commerce), who took his seat as a member of the committee for the first time.

In the discussion which followed, reference was made to the widespread appreciation which the various talks, both afternoon and evening, enjoyed, and the committee discussed how these broadcasts could be made still more effective. Various subjects for dialogues and talks were suggested, and a sub-committee consisting of Messrs. Tennent, McCaskill, and Cameron was set up to submit a report.

2YA Children's.

THE monthly meeting of the 2YA Children's Sessions Advisory Committee was held on Tuesday, August 26, Mr. L. J. Greenberg presiding. There were also present: Miss M. G. Thornton (Teachers' Training College), Mrs. Martin Tweed (Girl Guides), Miss E. Wilson (Free Kindergarten), Dr. Elizabeth Bryson (League of Mothers), Mrs. L. Sommerville (Federation of University Women), Mrs. Chatfield (Society for Protection of Women and Children), Brigadier Gray (Salvation Army), Mr. D. P. Campbell (Presbyterian Orphanage), Mr. G. W. Morgan (Radio Children), Mr. Andrews (Anglican Homes), Pastor W. G. Carpenter ("Uncle George"), Mrs. D. Evans (Children's Organiser), Mr. J. Davies (Station Director).

A long and interesting discussion ensued on the report of a sub-committee set up at the previous meeting to review the work of the sessions. This report read:—

1. It is the opinion of the committee that the Children's Sessions should cater more especially for children in the age-group five to ten years.

2. The sessions require what might be termed a psychological background. With this in view the committee submits experimental data based on research conducted by members of the staff of the Teachers' Training College. This information briefly sets out what is deemed to be the essential requirements of children in the age-group five to ten.

3. Story-telling on true and imaginary themes should find a regular place in the programmes, with an emphasis

on stories based on real facts of life, such as natural history and the records of human life and achievement.

4. The arrangement of the programme should be a matter of graduation, catering from the younger to the older group with certain "interspersions" in the second half.

5. As far as possible each programme should represent a blending of adult and children's work. All children's items should be under adult direction and acceptably done.

6. It is recommended that two members of the committee, i.e., Miss Thornton and Mr. Morgan, should be associated with the Children's Session Organiser in introducing two experimental programmes based on the suggestions made by this committee.

7. For the purpose of further investigation a committee of three should be appointed to co-operate with the organiser and an uncle for the purpose of applying these principles and with a view to securing experimental data from selected listeners.

8. That the thanks of the committee be conveyed to the principal and staff of the Teachers' Training College for the presentation of valuable data to the committee.

After discussion, each clause of the report was unanimously adopted.

RADIO DIRECTORY

What to Buy and Where

CITIES

AERIAL MASTS Domestic Radio Co., Ltd.,
300 Queen Street, Auckland.

ACE and HAMMERLUND SETS, Johns, Ltd.
WESTINGHOUSE Rectifiers Chancery Street, Auckland.

BROWNING DRAKE SPECIALISTS F. J. W. Fear & Co.
63 Willis Street, Wellington.

BURGESS RADIO BATTERIES, All Radio Dealers.

KING RADIO RECEIVERS ... F. J. W. Fear & Co.,
63 Willis Street, Wellington.

LOFTIN-WHITE AMPLIFIERS Stewart Hardware Ltd.,
Courtenay Place, Wellington.

MAJESTIC RADIO RECEIVERS Kirkcaldie & Stains,
Wellington Agents, Lambton Quay.

MULLARD VALVES All Radio Dealers.

PILOT 1930 PARTS—PILOT SUPER WASP KITS, GILFILLAN, KELLOGG and ATWATER KENT SETS Harrington's, N.Z., Ltd.,
138-140 Queen St., Auckland.
40-42 Willis St., Wellington.

RADIOLA RECEIVERS and Expert Radiola Service. Farmers' Trading Co., Ltd.,
Hobson Street, Auckland.

STEINITE RADIO G. G. Macquarrie, Ltd.,
120 Willis St., Wellington.

COUNTRY TOWNS

MAJESTIC, ATWATER-KENT AND RADIOLA ELECTRIC SETS Radio House, Hamilton.
G. S. Anchor, Manager.

PHILIPS VALVES AND APPARATUS All Good Radio Dealers.