

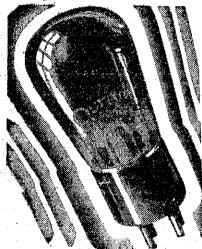
Cub sig to be

YOUV'E known your set to flirt with facts . . . to suggest that the singer had a cold or the announcer a megaphone.

That's easily remedied—by the substitution of one or more of your valves with

L610

battery - operated the Osrams.



Ask your dealer for Osram Valves — they are of sturdy, honest. British manufacture.

If you cannot obtain the valve you need, it will be sent direct, safe delivery guaranteed.

The "Osram Valve Guide" - a helpful little book-will be sent free on request.

A general purpose valve with very low A and B Battery Consumption.

SPECIFICATIONS

Fil. Volts . . . Fil. Current er amins. Plate Volts . . 150 max Amp. Factor Impedance . 7.500 ohms. Normal Slope 2.0 ma/yolts Equivalents UX201A, A615,



Made in England

Advertisement of the British General Electric Co. Ltd. Branch Office and Public Showrooms: 31-37 Taranaki Street, Wellington

Wireless and Weather "House of

IN a paper on the subject of "Weather and Wireless," read before the Royal Meteorological Society by Mr. R. A. Watson Watt, B.Sc., F.Inst.P., A.M.I.E.E., there is a section dealing with the always-present problem of reception of the "indirect" ray compared with the reception of the

"direct" ray.

Within the "service area" of a broadcasting station, the "direct" ray is not very strongly affected by conditions of light or dark along its path. By "service area" is meant that area of a broadcasting station within which the direct ray retains an energy level suffi-ciently high to give good signals in an average receiver.

Beyond this area the "indirect" ray operates and is a much more fickle and therefore a much more interesting

In his lecture, Mr. Watt refers to the question in the following manner:

"The service area is characterised by the relative constancy of signal strength given by the direct ray. It might, at first glance, appear that it could be indefinitely extended by im-provement in sensitivity of the 'aver-

But, in fact, irrespective of a wide range of variations in receiver sensitivity, it is found that outside a very limited service area lies a wide region in which signals may be re-ceived during daylight hours, but in enved during daying hours, but myhich, once night has fallen, signals are sometimes very strong indeed; sometimes, on the other hand, they weaken to complete inaudibility, and violent alternations in strength may occur within a few minutes.

"Still further from the transmitter the signals may actually be less variable than within this zone of acute fading. The whole group of phenomena may be satisfactorily explained by postulating interference effects between the direct ray and one or more in-direct rays; when the direct and indirect rays arrive by paths of such length as to reinforce one another at the receiver (the crest of a wave in the direct ray coinciding with a crest in the indirect ray) abnormally strong signals are heard; at times they will so completely neutralise one another (the crest of a wave in one ray filling the trough of a wave in the other) that the signal vanishes.

"The service area is that in which the direct ray is overwhelmingly stronger than the indirect; the zone of bad fading is that in which the direct and indirect rays are of comparable strength, so that opposition of phase can give almost complete neutralisation. In the outer area neutralisation. In the outer area the direct ray is much weaker than the indirect, so that the residual fading phenomena are due to modifications and interactions among the indirect rays themselves.

"The fluctuations of the indirect ray are to be ascribed to irregularities in the upper conducting layer, to varying layer with the searchlight and letting ionic cloudiness, if we maintain our the receiver read the lighting-up sign meteorological language. In view of nals. This searchlight analogy is the limitation of effective service area strictly accurate for a 'beam' transfor the direct ray it will be seen that mission, for 'broadcast' transmissions the greater part of the world's wire the greater part of the world's wire-less communications is effected by in-

Disappearance

Radio Play from 2YA

ON June 23 station 2YA will broadcast a radio thriller bearing the intriguing title of "The House of Disappearance."

This play was the first to be specially written for radio production in New Zealand, and aroused much interest on its initial production about a year ago. Many requests for a repetition have since been received. It is a play in seven scenes, and was written by Mr. Victor S. Lloyd, the well-known producer of many highly-successful microphone

THE plot, which is based to a limited extent on the novel of the same name by J. Jefferson Farjeon, depends largely for its effectiveness on atmos-

It would spoil the enjoyment of listeners to divulge the plot, which is full of surprises and unexpected twists. We may say, however, that there will be few "amateur detectives" who will anticipate the solution of the mysterious disappearances of several people from the house of Mr. John Elderly.

There are thrills in plenty, leavened with typical cockney humour by Geary the labourer, who is literally dragged into the House of Disappearance by

high-handed inspector of police.

One scene takes place in the heroine's apartments, with a gang of criminals battering their way in through door and window, leaving the here and heroine no apparent means of escape. Another scene takes place inside a safe in which the hero and heroine are locked-and a third scene is in a secret underground passage.

THE characters include a Cockney labourer, a suave, mysterious doctor, a sinister chaffeur, a hectoring in-spector, and a Member of Parliament. Altogether, the entertainment will

supply many exciting moments, and listeners may rest assured of a firstclass evening's enjoyment.

Picture Transmission.

PICTURE transmission and received apparatus is en route to South Africa for installation at Kodak House. the headquarters of the South African Wireless Telegraph Company, Cape Town. It is intended to utilise the beam system for the exchange of newspaper photographs and other illustra-When the installation is completed, tests will begin between Cape Town and Radio House, London, the wireless headquarters of Imperial and International Communications, Ltd.

but by lighting up the electrical cloud the process is like that by which we in Slough infer the existence of London by night, from the diffuse illumination "In fact, we signal not by directing of a cloud layer by the broadcast light-a wireless searchlight at the receiver, ing of the streets."