

POOR DOCUMENT

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THE EVENING TIMES AND STAR, ST. JOHN, N. B., MONDAY, FEBRUARY 12, 1923

FIFTEEN MINUTES OF RADIO EACH DAY

By Edward N. Davis
Formerly Technical Electrical Expert For U. S.
Government.

Lesson No. 230. POINTS TO REMEMBER

REMEMBER THAT:
Vacuum tubes should be removed from their sockets while changes are being made in the wiring of the set, as the wires leading from the plate battery may accidentally be connected to the filament circuit, in which case from 40 to 60 volts may be impressed upon the filament. This will result in serious injury to the filament due to the excessive flow of current. If several tubes are connected in parallel in an amplifier circuit do not remove one of the tubes without opening the filament battery circuit as the increase of current in the remaining filaments may be sufficient to burn them out.

Touching the surface of a crystal has the effect of reducing its sensitivity and consequently reducing the range of reception. Exposure to the air may also result in lowered efficiency due to the oxidation which takes place on the surface. A remedy for this condition is to scrape the surface lightly with a pen-knife.

It is important that the resistance of the antenna system be kept as low as possible, for the less resistance there is in the antenna the greater will be the strength of current which flows from the antenna to the receiving set. Provision should also be made for keeping the system practically stationary. This is particularly necessary in short wave C. W. transmission as considerable wave length variation results if there is swaying in the "lead in" or antenna wires. When a counterpoise is used it should be thoroughly insulated from the ground by the use of wooden supports.

In receiving sets employing regeneration, the effect of body capacity or other stray capacities may seriously interfere with the reception of signals. To eliminate this source of interference, the receptacle in which the apparatus is mounted should be lined with thin sheet copper and this lining carefully grounded. If sheet copper is not available, a fine metallic mesh of brass or copper may be used. None of the fixed or moving parts of the set should be in contact with the lining which acts as a shield and practically eliminates the annoying effects of body capacity.

In receiving circuits employing several stages of radio-frequency amplification, the amplifier tubes have a tendency to oscillate due to back coupling. This may be avoided by connecting a potentiometer of 200 to 300 ohms across the filament circuit and so regulating the position of the sliding contact of the potentiometer that the grids of the amplifier tubes may be adjusted to a small value of positive potential, thus preventing oscillation of the tubes and securing stability of operation.

A regenerative receiver employing a feed-back arrangement such as the "tuned plate circuit," "tickler coil circuit" or similar variations, is practically equivalent, in the reception of radio signals, to a receiver using one stage of radio-frequency amplification and a non-regenerative vacuum tube detector circuit. This is due to the fact that in the regenerative circuit the radio-frequency oscillations which pass through the detector without rectification and flow in the plate circuit are coupled back to the grid circuit and cause reinforced grid voltage variations which result in greater variations in the plate current.

The range of a receiving station is exceedingly difficult to predict. Geographical and atmospheric conditions exercise powerful influences on the reception of signals and it is a matter of common knowledge that the range of a receiver is greater at night than in the daytime. Under normal conditions the average range of a crystal receiver used with an outdoor antenna is about 25 miles and with an indoor antenna about five miles. A single vacuum tube receiver with outdoor antenna has a range of approximately 75 miles and with two stages of amplification this distance may be increased to several hundred miles.

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RECENT DEATHS

Edon M. Reed.
The death of Edon M. Reed occurred at the General Hospital. He was taken suddenly ill at home during the afternoon and Dr. M. Case was summoned. The man was ordered to hospital but he died a short time after his arrival there. He was thirty-seven years of age and has been employed as a foreman in the Nashua pulp and paper mills. He is survived by his wife, his father, William J. Reed, of Chatham; one son, Arthur, at home, one daughter, Ivy, at home, and one sister, Mrs. Robert Leggett, of Chatham. The funeral will be held on Tuesday afternoon at 2:30 o'clock from his late residence 288 Tower street, West End.

James T. Pickle.
The death of James T. Pickle occurred yesterday afternoon suddenly at the General Hospital. He was taken suddenly ill at home during the afternoon and Dr. M. Case was summoned. The man was ordered to hospital but he died a short time after his arrival there. He was thirty-seven years of age and has been employed as a foreman in the Nashua pulp and paper mills. He is survived by his wife, his father, William J. Reed, of Chatham; one son, Arthur, at home, one daughter, Ivy, at home, and one sister, Mrs. Robert Leggett, of Chatham. The funeral will be held on Tuesday afternoon at 2:30 o'clock from his late residence 288 Tower street, West End.

Don't Forget! Grand Carnival Torch Light Parade Wednesday Evening

Final plans are now being made to make this the greatest affair of its kind ever held in Eastern Canada.

Being arranged by the
RETAIL MERCHANTS' ASSOCIATION

Full program of Parade in Wednesday's papers.

This space donated by
WATERBURY & RISING, Ltd.

Sixty Cents

Many families are only paying sixty cents to have their weekly washing done by us.

We will be pleased to tell you more about it. Just call
M. 1707.

DRY CLEANING & DYEING — WET WASH & ROUGH DRY
PHONE 1707
New System Laundry Limited
WET WASH, FRENCH DRY CLEANING AND DYEING
30-40 LANSDOWNE AVE.

Get a Pair of These Overshoes and be Comfortable at the Sports

Men's One-Buckle Overshoes—
Size 7 and 8. Sale Price \$2.05

Men's Four-Buckle Overshoes—
Size 11 only. Sale Price \$2.90

Men's High-Cut Khaki Overshoes—
Size 10 only. Sale Price \$3.75

Boys' Two-Buckle Overshoes—
Size 3 and 4 only. Price \$1.85

Women's Button Overshoes—
Size 2-2, 4-2, and 5-2 only. Sale Price \$1.50

Men's Good Quality Rubbers—
Heavy soles; all sizes. Sale Price \$1.10

These and many other interesting bargains are shown in our windows and bargain table.

McROBBIE
Foot St. John 50 King
Fitters Street

Stores open 9 a.m.; close 6 p.m.
During Winter Months.

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This Big Store is Ready With Many Advantageous Bargains For Carnival Week

Our Own St. John People as Well as Strangers Visiting in Our City Will Benefit Greatly By Taking Advantage of the Many Bargain Opportunities Especially Assembled for This Event.

Almost every department of this store contributes something of interest to this value-giving occasion.

Many Pretty House Dresses Very Low Priced for Carnival Week

You'll find a fine variety of colors, sizes and fabrics to choose from. They are fresh, crisp dresses in becoming and easily laundered styles. Gingham, Chambrays and the popular nurse's stripe all included.

Extraordinary Value at \$1.95, \$2.25, \$3.25

Big Special Value in Smart Gingham Gowns

Eight attractive patterns to choose from. These are nicely trimmed with colored loops. Dresses of this type will be just what you're needing for summer afternoons in the country; or for house wear in town. All sizes to 44 inches.

Really Wonderful Value, \$2.40 Each

Favorite Washable Fabrics Very Attractively Priced

Brand New Fresh Goods You Are Sure to Admire

Plain Ratines in Copen, peach, green, helio, rose and grey. 36 inches wide. Only 65c. Yard

Lingerie Krinkles in helio, mauve, sky and pink with very dainty designs. 30 inches wide. 65c. Yard

New Gingham in stripes and small and medium blocks and checks. 32 inches wide. 29c. Yard

Fancy Voiles in an assortment of fashionable patterns and colorings. 38 inches wide. 55c. Yard

Riplette—An excellent material for women's and children's wear. Requires no ironing. Showing in stripes and checks. All colors. 27 inches wide. 19c. Yard

(Ground Floor.)

Bargain Specials from Trimming Department

Children's Flouncings in twelve dainty designs. Very suitable for infant's or children's dresses. 27 inches wide. Sale, 75c. Yard

Partly Made Camisoles with shoulder straps and shaped armholes. Sale, 60c. Each

Silk Alencon Net in pink, blues, jade, rose, maize, lavender, etc. 42 inches wide. \$1.15 Yard

(Ground Floor.)

Exceptional Values in Rugs and Remnants of Linoleums and Oilcloths

In these sale groupings you will find English Axminster in Oriental colors and designs.

Size 3 yards x 2 1/2 yards \$35.00

Size 3 yards x 3 yards \$40.00

Size 3 yards x 3 1/2 yards \$50.00

Size 3 yards x 4 yards \$55.00

English Seamless Tapestries from \$15.00 up.

Heavy Jute Stair Carpets, 3/4 yd. wide, 40c. yard; 3/4 yd. 50c. yard.

Cocoa Mats, 85c. each.

Rubber Mats, \$1.00 each.

Hit or Miss Reversible Wash Rugs—Three sizes, \$1, \$1.50, \$2.50.

(German Street Entrance.)

Children's Garments

White Middies, with Navy or Copenhagen Collars, 98c., \$1.50, \$2.50.

White Rompers, with blue or pink pockets and hand-worked bunnies. Special \$1.00 garment.

Chambray Dresses, trimmed with dainty checks. Different colors. Special \$1.50.

Chambray and Gingham Dresses, with bloomers. Sizes 2, 3 and 4 years. Special \$1.00.

(Children's Shop—2nd Floor.)

Blankets, Comfortables, Furniture Coverings At Carnival Week Prices

White All Wool Blankets nicely finished at ends. Regular size. Sale \$8.00 pair.

Fancy All Wool Blankets, suitable for lounge covers or extra bed coverings. Latest patterns. Pinks, browns, blues. Sale \$8.25 each.

"Our Own Make" Bed Comfortables, extra large size. Filled with best grade carded cotton. Sale \$4.95 each.

Fancy Chintz and Art Satens for over-curtains, cushion covers, etc. 30 in. to 36 in. wide. 25c. yard.

Tapestry Furniture Coverings, in seven designs. All 50 in. wide. Sale \$1.75 and \$2.25 yard.

(Housefurnishing—2nd Floor.)

Your Opportunity To Buy Curtains

Carnival Week Prices Are Very Attractive

Plain Marquiesette Curtains with hemstitched borders; extra wide hems. 2 1/2 yards long. Special \$3.00 pair.

Filled Marquiesette Curtains in spotted pattern. White only. Two yds. long. Special \$3.25 pair.

Grecian Net Curtains in heavy quality with wide or narrow lace edges. 2 1/2 yards long. Special \$3.50 pair.

Extra Heavy Net Curtains with fringe on edge. 2 1/4 yards long. Special \$3.00 pair.

(German Street Entrance.)

Dainty Whitewear Very Specially Priced

Night Gowns made from White Cambric, trimmed with colored bindings of orchid, sky or honey dew. Only 98c. each.

Night Gowns of heavy flesh Crepe. Only \$1.15 each.

Night Gowns, trimmed with fine embroidery and wash ribbon. V neck style. Only \$1.50 each.

Special Two-Piece Combinations—Camisole and skirt or corset cover and drawers. \$1.50 and \$2.00.

Corset Covers, trimmed with lace and embroideries. Very special 50c., 75c. 85c.

Fancy Silk Camisoles, \$1.95 ea.

Bloomers in Nainsook, Crepe or Brocade Satin; flesh and white. 50c., 70c. up to \$1.60.



Lovely Trimmed Hats New Models

\$4.50 and \$6 each

You'll need to see these to fully appreciate the value they offer.

(Millinery Salon—2nd Floor.)

Gloves for Women

It would pay any woman to buy up an extra supply while these very low prices are available.

Two-dome French Kid Gloves in tan, champagne, black and white with black stitching. \$1.95 Pair

Two-dome Chamisette Gloves in white, black, fawn, grey and brown. 55c. Pair

(Millinery Salon—2nd Floor.)

Bargains in Women's Handkerchiefs

All Linen with plain hems. Sale 1/2 dozen for 70c. Italian Linen with two or three rows of hemstitching. Sale, 3 for \$1.00

Sale of Underskirts

Don't Miss Getting One of These!

Fine mercerized material in fancy flowered patterns. Sale Price, 90c. Each

Silk finished material in fancy flowered patterns. Sale Price, \$1.15 Each

(Second Floor.)

Women's White Pull-Over Sweaters

Heavy rib and jumbo-knit. Made with comfortable convertible collars. \$5.75 and \$6.90 (Costume Dep't—2nd Floor.)

Women's and Children Hosiery

Very Low Priced

Children's English Heather Hose, sizes 6 to 7 1/2 inches. Sale, 75c. Pair

Women's English Heather Hose, ribbed. \$1 Pair

Plain. \$1.25 Pair

Women's Cashmere Hose with embroidered ankles. Champagne shade only. Sale, \$1.50 Pair

Women's Ten-Button Gaiters in brown, grey and black. Sale, 50c. Pair

Women's Eleven-Button Gaiters in brown, grey and fawn. Sale, 75c. Pair

(Hosiery Dep't—Ground Floor.)

The Art Room Offer at Very Low Prices

Community and Par Plate Silverware in knives, forks, spoons and odd pieces of many kinds.

China Cups and Saucers, Plates, Teat Pots, Pitchers and Water Jugs.

Semi-Porcelain Plates, Sauce Dishes, Cereals, Soup Plates, Cream and Sugars, Platters, Casseroles, etc.

(German Street Entrance.)

Manchester Robertson Allison Limited
KING STREET • GERMAIN STREET • MARKET SQUARE