

1941

An Open-Air Ionization Chamber Roentgen Meter for Routine Measurements of X-Ray Intensities (Abstract)

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SCATTERING OF Na IONS IN Hg VAPOR

(ABSTRACT)

F. W. PARKER

The angular distribution of Na ions scattered by Hg vapor has been investigated by means of a rotating collecting assembly. Ionization effects appear for ion energies greater than 100 e-volts.

STATE UNIVERSITY OF IOWA,
IOWA CITY, IOWA.

AN OPEN-AIR IONIZATION CHAMBER ROENTGEN
METER FOR ROUTINE MEASUREMENTS OF
X-RAY INTENSITIES

(ABSTRACT)

L. E. PINNEY

The meter is an adaptation of developments by L. S. Taylor at the U. S. Bureau of Standards. In working out this design, special attention has been given to convenience of operation. Certain modifications have been found necessary where the instrument is to be used with X-ray sources of very high intensity.

DEPARTMENT OF PHYSICS,
IOWA STATE COLLEGE,
AMES, IOWA.

A VOLTAGE STABILIZING DEVICE FOR RECTIFIED
A. C. POWER SOURCES

(ABSTRACT)

L. E. PINNEY

The device is applicable to situations where currents of several milliamperes are required, as in the operation of low voltage X-ray tubes. With variation in line voltage not exceeding two per cent, fluctuations in output voltage, including ripple, are held within one-tenth per cent.

DEPARTMENT OF PHYSICS,
IOWA STATE COLLEGE,
AMES, IOWA.