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Order from SLA \$14.00 62-18566

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DESCRIPTORS: Cathode ray tubes, *Electron guns,
Design, Resolution, *Electron microscopes,
*Diffraction analysis.

A description is given of an electronic gun for use in
diffraction analyzers and microscopes. Included are
results of measurements of the geometric definition of
the spot and the yield. The gun, used without a con-
denser, results at 45 kV a current density ten times
higher and a yield of about 20%, or 13 times higher
than that of the conventional gun without condenser.
The total consumption of high voltage current is
approximately equal to 40 A. (Author)

62-18566

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II. Bruck, H.

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Order from SLA m\$3.00, ph\$6.30 61-10455

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v. 13, Apr. p. 130-139.

Having briefly recalled the general principles of operation of radars using the comparison of phases or amplitudes of signals received, the author sets out the formulae giving the values of the sum and difference of these signals. The value of the quotient of the difference by the sum is then determined as a function of the antenna pattern, the quotient being zero on the antenna axis. The variation of the direction of this axis is then examined as a function of the unbalanced conditions in the circuits shaping the sum and difference signals and conclusions are drawn in respect to the structure and position of these circuits. (Author)

(Engineering--Electronic, TT, v. 5, no. 7)

61-10455

1. Microwave networks--
Theory
2. Radar pulses--Theory
3. Title: Monopulse radar
1. Thourel, L.

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Phase Synchronization of an Oscillator. Application
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DESCRIPTORS: *Electron tubes, *Magnetrons, Elec-
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frequency, Operation, *Electromagnetic pulses,
Theory.

(Engineering--Electronic, TT, v. 9, no. 11)

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II. Kantorowicz, G.
III. Nalot, J.

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Order from S.I. \$1.60 TT-6-146 b

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DESCRIPTORS: *Capacitors, *Tantalum capacitors,
Electrical properties, Tantalum, Porosity, Silver,
Electrodeposition, Vapor plating.

A detailed study of the properties of Ta_2O_5 produced by
anodic oxidation of tantalum was made. It could be
shown that the valve effect is mainly due to the presence
of defective areas, probably pores, in the oxide. These
pores can be localized by electrolytic deposition of
silver or by the electrolytic removal of silver de-
posited by evaporation. Grazing evaporation makes it
(Engineering--Electronic, TT, v. 11, no. 11) (over)

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Order from K-H \$35.00 K-H 9915 c

Trans. of Annali della Sanità Pubblica (Italy) 1959,
v. 20, no. 4, p. 689-709.

DESCRIPTORS: *Smokes, *Tobacco, Lungs, *Tumors.

(Biological Sciences--Pathology, TT, v. 9, no. 1)

62-22793

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Detroit, Mich.

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