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The Evaporation of Metals from Hot Filaments (Abstract)

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Flash characteristics are estimated and performance criteria are proposed.

Comparative experimental results are given and improvements in design are discussed.

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THE EVAPORATION OF METALS FROM HOT FILAMENTS

(ABSTRACT)

WALLACE C. CALDWELL

Several investigators have used the evaporation technique for making surface mirrors, thermocouples, high resistances, and other devices. The method usually used involves attaching the metal to be evaporated to a refractory filament that is heated electrically. In this work the results of visual observations of wetting of the filament by the molten metal, of evaporation, and of any obvious alloying of the molten metal with the filament material enables the determination of the best filament to be used with each metal.

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SCATTERING OF POTASSIUM IONS IN VARIOUS GASES

(ABSTRACT)

JOHN A. ELDRIDGE

Development of method for measurement of the scattering of ions projected as a beam with energies 50-400 e-volts. Results are given for scattering at different angles.

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