# Set of histograms referenced as "Optical diffr[action] from array of various number of objects"

#### **Contributors**

Fuller, Watson, 1935-

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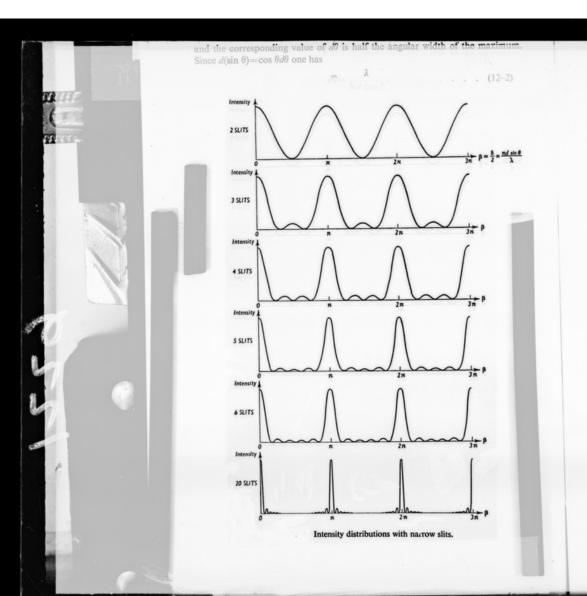
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adjacent principal maxima.

Between these various minima lie (N-2) in number and their intense complete intensity distributions for the scale being adjusted to make the Photographs of the patterns are shown in the width were used and, as will also a variation of intensity across the of Fig. 12–3 are contained within a proved in the case of two slits (see 8th, 12th, etc., orders are missing gratings were three times as wide as

In Fig. 12–3 and Plate II, the scases and it is seen at once that, as in the same places for all values of other results derived above (N-1) minima and (N-2 maxima. It can also be seen become much weaker (see § is very large and most of the

When N is large, the morp patterns of increasing N is stant. This corresponds to the effect of increasing the r (12-2) then show that as N is spaced but retain the same of the principal maxima depupon the number of lines idiffracting elements.

## 12-2. Intensity Distribution

The separation of the flapproximates to Nd. It when  $\cos \theta = 1$ , the angular wind that of the central maximum for the overall width of the grating. secondary maxima also approach complete grating. The reason for vibration polygon for a large valuthis will approximate, in gene corresponding to the single apert minima. For example, at the co