Abstracts

The Relationship of Physical Applications of Fourier Transforms in Various Fields of Wave Theory and Circuitry

E.F. Bolinder. "The Relationship of Physical Applications of Fourier Transforms in Various Fields of Wave Theory and Circuitry." 1957 Transactions on Microwave Theory and Techniques 5.2 (Apr. 1957 [T-MTT]): 153-158.

A procedure is presented for connecting some known physical applications of Fourier transform pairs in different branches of the theory of waves and circuitry. After an investigation of the cases of diffraction, reflection, and coupling of waves, deflection of particles (which includes the cathode-ray-tube case and so-called gap effect) and the closely related scanning problem are examined. Finally, extension to random functions is discussed briefly.

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