

would be the same; hence, they concluded that this did not appear to be a viable deterrent method. While the committee addressed moiré patterns produced between two patterns printed on the note and reproduced by analog copiers, they apparently did not consider aliasing effects that will occur when high-frequency patterns are under-sampled by digital photocopiers and scanners.

Induced moiré (i.e., moiré patterns due to aliasing in a sampled image system) has been used as a counterfeit-deterrent feature in various forms since the late 1970s for document security (Wicker, 1991; Canadian Banknote Company, 1966; Kendrick and Jefferson, Ltd. 1988; Thomas De La Rue and Company, Ltd. 1985).⁹

Recently another method of using induced moiré for document security has been reported (Spannenburg, 1991). The formation of "alias" or moiré images was investigated using dot- and line-frequency modulation and screen-angle modulation. An example of a frequency-modulated image and a copy of this image made using a digital color copier are shown in Figure 4-10 and Figure 4-11 respectively (Spannenburg, 1991).

Researchers have also investigated "specialized line structures" that are invisible on the genuine document and clearly visible on the counterfeit, thereby confirming its invalidity (Thomas De La Rue and Company, Ltd., 1992).



Source: Dr. Sijbrand Spannenburg, Manager MatheGraphics, The Netherlands.

FIGURE 4-10 Frequency-modulated image.
(True original did not have any moiré.)

FIGURE 4-11 Copy of image made
using a state-of-the-art color copier.

The committee has found that concentric-circle patterns and zone plate patterns (Figures 4-8, 4-9, and D-1) are effective in defeating accurate reproductions. Due to the alias patterns

⁹ Wicker, 1991, a follow-on patent that covers further extensions and embodiments of introduced moiré for document security, has also been granted.

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