CORRECTION TO THE PAPER

"HAAR SERIES" [1]

V. G. Krotov

An error is contained in the proof of Lemma 1 of the author's paper [1]; furthermore, Lemma 1 is false. In this connection the formulations of certain assertions in the article require correction. In Theorem 1 condition (5) needs to be replaced by the stricter requirement

$$\sum_{k=n}^{\infty} \omega(2^{-k}) = O\{\omega(2^{-n})\} \quad \text{as } n \rightarrow \infty. \quad (\text{B})$$

Under this assumption the proof goes through in the same way as for Theorem 10 of [2]

The question of the validity of Theorems 4 and 5 in [1] remains open. Together with them we have the valid statement: if $\omega(\delta)$ satisfies condition (B), then for every function $f(x) \in C(0, 1)$, for which $\lim_{\delta \rightarrow 0} \omega(\delta, f)/\omega(\delta) > 0$, there is fulfilled the relation

$$a_m(f) \neq \left\{ m^{\frac{1}{2}} \omega\left(\frac{1}{m}\right) \right\} \quad \text{as } m \rightarrow \infty.$$

The proof of this fact is carried out in the same way as for Theorem 4 in [1], except that instead of the erroneous Theorem 1 its corrected version above is used.

LITERATURE CITED

1. V. G. Krotov, "Haar series," *Sibirsk. Matem. Zh.*, **14**, No. 1, 111-127 (1973). **14**, No. 1, 111-127.
2. B. I. Golubov, "On Fourier series of continuous functions with respect to a Haar system," *Izv. Akad. Nauk SSSR, Seriya Matem.*, **28**, No. 6, 1271-1296 (1964).

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