CORRIGENDA TO "DIFFRACTION BY POLYGONS
AND POLYHEDRA" *

V. A. Borovikov

In the author's abstract of my dissertation [1], which I defended in November, 1965, I committed a significant error.

The topic of the dissertation was the problem of diffraction by polygons and polyhedra. Two statements of the problem were considered: the nonstationary problem (described by the equation $u_{tt} = \Delta u$) and the stationary problem (equation $\Delta v + k^2 v = 0$). The singularities of the Green function $\Gamma(t, \mathbf{r}, \mathbf{a})$ were analyzed in the paper for the nonstationary problem. If the formal Fourier transform on t is subsequently used to go to the Green function $G(k, \mathbf{r}, \mathbf{a})$ for the stationary problem, the results obtained in the paper with regard to the singularities of $\Gamma(t, \mathbf{r}, \mathbf{a})$ transform at once into an algorithm for seeking the asymptotic behavior of $G(k, \mathbf{r}, \mathbf{a})$ as $k \rightarrow \infty$.

These algorithms do not have a rigorous mathematical foundation, because in the dissertation I did not prove the applicability of the above-indicated Fourier transform for passing to the stationary problem, and I made a statement to that effect both in the dissertation and in a later monograph [2]. Through an oversight, however, I failed to make the same clarification in my abstract of the dissertation. I am hopeful that the present letter will serve in some measure to remedy the mistake.

I take this opportunity to express my appreciation to V. P. Mikhailov, who discovered the error in the author's abstract and was kind enough to bring it to my attention.

LITERATURE CITED

1. V. A. Borovikov, Diffraction by Polygons and Polyhedra (Doctoral Dissertation) [in Russian], Moscow (1965).
2. V. A. Borovikov, Diffraction by Polygons and Polyhedra [in Russian], Nauka, Moscow (1966), p. 17.

* Author's Abstract of Doctoral Dissertation (1965).

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