3. K. A. Karpov, Tablicy funkcii $w(z)=e^{-z^{2}} \int_{0}^{z} e^{x^{2}} d x$ vompleksnor oblasti, Insdat. Akad. Nauk SSSR, Moscow, 1954. See MTAC, v. 12, 1958, p. 304-305.
4. K. A. Karpov, Tablitsy funktsi冗$F(z)=\int_{0}^{z} e^{x^{2}} d x$ v kompleksnot oblasti, Izdat. Akad. Nauk SSSR, Moscow, 1958. See Math. Comp., v. 14, 1960, p. 84.
5. R. Hensman \& D. P. Jenkins, "Tables of $(2 / \pi) e^{z^{2}} \int_{z}^{\infty} e^{-t 2}$ for complex $z$," UMT file, Math. Comp., v. 14, 1960, p. 83.

11 [L].-Fritz Oberhettinger \& T. P. Higgens, Tables of Lebedev, Mehler, and Generalized Mehler Transforms, Math. Note No. 246, Boeing Scientific Research Laboratories, Seattle, 1961, 48 p., 21.5 cm .
The transform pairs tabulated are:
A. (Lebedev)

$$
\begin{aligned}
& g(y)=\int_{0}^{\infty} f(x) K_{i x}(y) d x \\
& f(x)=2 \pi^{-2} x \sinh \pi x \int_{0}^{\infty} y^{-1} K_{i x}(y) g(y) d y
\end{aligned}
$$

where $K_{\nu}(x)$ is the modified Bessel function of the second kind.
B, C. (Mehler, Generalized Mehler)

$$
\begin{aligned}
& g(y)=\int_{0}^{\infty} f(x) P_{i x-1 / 2}^{k}(y) d x \\
& f(x)=\pi^{-1} x \sinh \pi x \Gamma\left(\frac{1}{2}-k+i x\right) \Gamma\left(\frac{1}{2}-k-i x\right) \int_{1}^{\infty} g(y) P_{i x-1 / 2}^{k}(y) d y
\end{aligned}
$$

where $P_{i x-1 / 2}^{k}(y)$ is the Legendre function. The Mehler transform is the case $k=0$. Furthermore, $k=\frac{1}{2}$ and $k=-\frac{1}{2}$ give rise to Fourier cosine and sine transforms, respectively.

Most of the results given here are new. A list of Lebedev transforms is available in Tables of Integral Transforms by A. Erdélyi, W. Magnus, F. Oberhettinger, and F. G. Tricomi, McGraw-Hill, 1954, v. 2, Ch. 12, but the present compilation is much more extensive. Only a few entries of the Mehler transform are given in the above reference.

The transforms are useful to solve certain boundary-value problems of the wave or heat conduction equation involving wedge or conically shaped boundaries, and a number of references to physical problems are given in the bibliography. To facilitate use of the tables, definitions of higher transcendental functions which enter into the transforms are provided in a separate section.

> Y. L. L.

12 [W].-F. P. Fowler, Jr., Basic Mathematics for Administration, John Wiley \& Sons, Inc., New York, 1962, xvii + 339, 23.5 cm . Price $\$ 7.95$.
This book presents a general survey of basic mathematics used in the development of modern decision-making techniques. The authors give a background sketch

