

should be replaced by "second"). After reading this book the first thought that will come to the mind of most people, as it did to the reviewer, is the hope that the appearance of the remaining two volumes will not be long delayed.

WALTER LEDERMANN.

**Fourier Transforms.** By I. N. SNEDDON. Pp. xii, 542. 85s. 1951. (McGraw-Hill)

If  $f(x)$  is defined by a differential equation and certain boundary conditions, it is sometimes simpler to translate the boundary value problem into one for the function

$$I_f(\alpha) = \int_0^{\infty} f(x) K(\alpha, x) dx,$$

where  $K(\alpha, x)$  is a known function of  $\alpha$  and  $x$ .  $I_f(\alpha)$  is called the integral transform of  $f(x)$  and  $K(\alpha, x)$  the kernel of the transform. If  $x$  is one of the independent variables in the (partial) differential equation, the effect of translating the equation into one for its transform is to exclude the variable  $x$  and leave for solution a differential equation in one less variable. The solution of this equation, which will be a function of  $\alpha$  and the remaining independent variables, has then to be "inverted" to recover the "lost" variable. The inversion process means, in effect, solving the above integral equation when  $I_f(\alpha)$  is known and  $f(x)$  is to be found.

For the boundary value problems of mathematical physics the kernels most commonly used are

$$e^{\alpha x}, \quad \frac{\sin}{\cos} \alpha x, \quad J_\nu(\alpha x), \quad x^{\alpha-1},$$

and the corresponding transforms are known respectively as those of Laplace, Fourier, Hankel and Mellin. Inversion theorems for all these transforms can be set up and the first three chapters (about 90 pages) of the book under review give a careful and thorough account of this basic theory. Since Professor Sneddon has written his book for those whose interest is primarily in the application of the theory, these chapters make no attempt to give the foundations in their most general form. Nevertheless, the main theory is given for a class of functions which is wide enough to include those which normally occur in problems of applied mathematics.

Professor Sneddon includes a discussion of "finite" transforms in which the limits of integration in the integral defining the transform are  $(a, b)$  instead of  $(0, \infty)$ . Although the use of such transforms does not solve problems which are incapable of solution by the classical methods of Fourier or Fourier-Bessel series, it does facilitate their solution. Professor Sneddon has taken a prominent role in advocating the use of these transforms and the method does appear to have a distinct advantage over the classical methods which often require some ingenuity in assuming at the outset the correct form of the solution.

The remaining seven chapters (some 400 pages) are devoted to the application of the theory to problems of mathematical physics and engineering. The subjects treated are vibrations, conduction of heat in solids, the slowing down of neutrons, hydrodynamical problems, applications to atomic and nuclear physics and problems in elasticity. Each chapter is well written and the basic theory is applied to worth-while problems, most of which have been taken from recent research papers. No special knowledge of mathematical physics is assumed and each chapter opens with a clear discussion of the physical foundations and the derivations of the basic equations. Useful appendices give some properties of Bessel functions, approximate methods of calculating the integrals appearing in the solutions, and tables of transforms.

# Fourier Transform Sneddon

**S Ben Porath**



**Fourier Transform Sneddon:**

## Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Fourier Transform Sneddon**

In some sort of inundated with monitors and the cacophony of instant conversation, the profound power and mental resonance of verbal art often fade in to obscurity, eclipsed by the continuous onslaught of noise and distractions. Yet, set within the musical pages of **Fourier Transform Sneddon**, a fascinating perform of literary beauty that pulses with natural feelings, lies an wonderful trip waiting to be embarked upon. Published with a virtuoso wordsmith, that exciting opus guides readers on a mental odyssey, lightly exposing the latent potential and profound influence stuck within the delicate internet of language. Within the heart-wrenching expanse with this evocative evaluation, we can embark upon an introspective exploration of the book is key styles, dissect its captivating publishing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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