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xtra textbook Q. Important textbooks and Notebooks are available at shanti swarup Integral Equation of First Order, by Shanti Swarup Sarma, Oxford University Press, Delhi, India, is a compilation of classical articles in integral equations of first order., by Shanti Swarup Sarma, Oxford University Press, Delhi, India, is a compilation of classical articles in integral equations of first order. Integral equation is basically a set of two systems of linear integral equations, one for the function and another for its derivative. They are used in some important problems in various branches of physics and other sciences. Integral equations of first order are used to study the discontinuity of the function and its derivative at the same point. For example, a classical problem in physics is the problem of ionization of an electron from a neutral atom. The moment that the electron is removed, it is no longer in the ground state of the atom and starts oscillating around the nucleus. The nuclear charge of an atom can be written in terms of the Fourier coefficients in a basis of bound orbitals. The quantum mechanical calculation reveals that the

integral equation for the Fourier coefficients are of the form where I - the identity operator and T is the transition operator. From the integral equation one gets a system of linear equations with the Fourier coefficients. The ground state is obtained by putting an initial condition for the Fourier coefficients If the electron has lost all its energy to interact with the nucleus, the matrix elements of the operator T may be approximated by 1 and the equation (1.10) becomes a linear system of algebraic equations with The eigenvalues of the equation for are the energies of the excited states. In solving (1.10), the Fourier coefficients are usually obtained by the J. M. Stewart's method of Tikhonov. The method of solution of integral equations is quite useful for the eigenvalue problem of the Schrödinger equation. The method for the solution of integral equation for the eigenvalue problem has also been presented in many books. Let us consider two different cases of the discontinuity at the same point. Let D(x) and D' 82157476af