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Singular integral equation - Encyclopedia of Mathematics

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Boundary Value Problems | ScienceDirect

apparatus of Cauchy type integrals and singular integral equations, in the study of which the author and his students took active interest. A considerable part of the book is devoted to applications to the solution of numerous problems of potential theory, the theory of elasticity and other sections of mathe matical physics.

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Solve the singular integral equation of the first kind, involving a semiinfinite interval with a gap, as given by b1 ∞ ψ(t)dt ψ(t)dt (181) + = g(x), x ∈ (a1 , b1) ∪ (c1 , ∞). t − x t−x a1 c1 Solution: Taking limit as d1 → ∞, keeping x fixed, in Equation 179, we obtain ! ∞ b1 1 A2 Sgn (x − b1) − + ψ(x) = √ (x − a1)(x − b1)(x − c1) π 2 a1 c1 √ (t − a1)(t − b1)(t − c1) Sgn(t − b1) g(t)dt , √ (x − a1)(x − b1)(x − c1) Sgn (x − b1 ...

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problems. As applications of our results, we consider the following boundary value problems z (t) +g(t)(az(t) bz (t))=0 a.e. on [0,1] (1.3) with two point, three point and some periodic boundary value problems, where is allowed to take negative values, so (1.3) may be singular.We shall use our results to show that (1.3) has infinitely many