Sigmoidal Transformations for Solving
Cauchy Singular Integral Equations

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In this lecture, we are concerned with generalized airfoil equation, which contains both the particular Hadamar finite-part and the Cauchy principal value integrals. By the use of Sigmoidal transformations and results of Lyness concerning the Euler-Maclaurin expansion has shown that good approximations can be found for this equation. We also present some numerical examples.