

**On Applications of a Complex Variable Method in Compressible
Flows**

P. Daripa

Division of Applied Mathematics, Department of Mathematics
Texas A&M University, College Station, TX 77843

Received December 6, 1988; June 26, 1989

In this paper, we develop a complex variable formulation for the potential equations of compressible fluid flow and discuss the possibility of its application to the solution of compressible fluid flow problems. A numerical method to solve inverse problems using this formulation is discussed.

© 1990 Academic Press, Inc.

Appeared: *J. Comp. Phys.*, 88(2), pp. 337–361, 1990.