

1022-45-100

Irina Mitrea* (im3p@virginia.edu), Irina Mitrea, Department of Mathematics, University of Virginia, Charlottesville, VA 22904, and **Marius Mitrea**. *Multiple Layer Potentials for Higher Order Elliptic Boundary Value Problems*.

We discuss the multiple layer potential approach for solving the Dirichlet problem for higher order elliptic operators with data in various function spaces on the boundary of bounded smooth domains in two dimensions. (Received September 11, 2006)