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**Irina Mitrea\*** ([imitrea@math.cornell.edu](mailto:imitrea@math.cornell.edu)), Cornell University, Department of Mathematics,  
Malott Hall, Ithaca, NY 14853. *Elliptic boundary value problems in two dimensions.*

We employ Mellin transform techniques, Calderón-Zygmund theory and global optimization techniques in the study of spectral properties of layer potential operators associated to elliptic systems in two dimensions. (Received February 24, 2004)