1139-35-66   **Michael E. Taylor*** (`met@math.unc.edu`), Mathematics Dept., University of North Carolina, Chapel Hill, NC 27599. *Multidimensional Toeplitz operators with discontinuous symbols.*

We treat a class of Toeplitz operators with discontinuous symbols, stimulated by classical work of R. Douglas and H. Widom. We extend the notion of a locally sectorial symbol from the setting of scalar Toeplitz operators on the circle to systems, acting on vector valued functions on a class of multidimensional domains with minimal smoothness, known as uniformly rectifiable domains, and establish Fredholm properties in this expanded setting. (Received January 25, 2018)