Abstract

The main theme of this paper is to construct Clifford analytic-complete function systems in the generalized Bergman spaces: $B^p Cl_n(\Omega) := \ker D(\Omega) \cap L^p Cl_n(\Omega)$, and $B^{p,2} Cl_n(\Omega) := \ker \Delta(\Omega) \cap L^p Cl_n(\Omega)$. These systems are used to approximate null solutions of elliptic partial differential equations of the Dirac and Laplace operators over an unbounded domain $\Omega$ in $\mathbb{R}^n$. Copyright ©2002 John Wiley & Sons, Ltd.