International J. of Math. Sci. & Engg. Appls. (IJMSEA) Vol. I No. 2 (2007), pp. 277-283

BIHARMONIC EXTENSIONS IN AN INFINITE NETWORK

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Abstract

The converse of Riesz Representation theorem is proved in an infinite network. This leads to the definition of biharmonic functions and bipotentials in an infinite network. A biharmonic function defined inside a ball is extended to the whole network.