

An introduction to Clifford analysis 1 and 2

John Ryan
Department of Mathematics
University of Arkansas
Fayetteville, AR 72701, USA

Abstract

In these two talks I will explore the basics of Clifford analysis. First aspects of Clifford algebras will be introduced. Then we shall introduce the Dirac operator in euclidean space and explore its basic properties. This includes the Cauchy Integral formula and the conformal invariance of the Dirac operator. Further links to the Fourier transform will be outlined. Time permitting we will also look at the Dirac operator in hyperbolic space.