



John T. ANDERSON

(anderson@mathcs.holycross.edu), Department of Mathematics and Computer Science, College of the Holy Cross, Worcester, MA 01610-2395, USA, ***Rational Approximation in C^2*** .

ABSTRACT. We consider the problem of approximating continuous functions on a compact set $X \subset C^n$ by rational functions holomorphic in a neighborhood of X . For $n = 1$, the theory is well-developed, but few general results are known in higher dimensions. We focus primarily on the case when X is a subset of the unit sphere $|z_1|^2 + |z_2|^2 = 1$ in C^2 , a setting in which it may

be possible to prove results analogous to those on approximation in the plane.