John E Holliday* (jeholliday@ngcsu.edu), Department of Mathematics and Comp. Science,
82 College Circle, Dahlonega, GA 30597, and Peter D Johnson, Department of Mathematics and
Statistics. The Shields-Harary Numbers of the complete bipartite graph Km, n for Continuous
Concave Cost Functions Vanishing at One.

The Shields-Harary numbers are a class of graph parameters that measure a certain kind of robustness of a graph, thought of as a network of fortified reservoirs, with reference to a given cost function. In this talk, we consider results pertaining to the Shields-Harary numbers of the complete bipartite graph with respect to the cost function f(x)=1-x as well as to any continuous concave cost function h with the property that h(1)=0. (Received September 27, 2005)