998-54-188   **W. T. Ingram*** (`ingram@umr.edu`) and **William S. Mahavier** (`wsm@mathcs.emory.edu`).
Inverse Limits of Upper Semi-continuous Set Valued Functions.

In this article we define the inverse limit of an inverse sequence $(X_1, f_1), (X_2, f_2), (X_3, f_3), \ldots$ where each X_i is a compact Hausdorff space and each f_i is an upper semi-continuous function from X_{i+1} into 2^{X_i}. Conditions are given under which the inverse limit is a Hausdorff continuum and examples are given to illustrate the nature of these inverse limits. (Received February 25, 2004)