

962-49-122

Yefim Vladimirsky* (yefim@gwu.edu), 216 Congressional Lane #203, Rockville, MD 20852.

Image performance for spacial nonlinear systems. Preliminary report.

For special nonlinear systems arising from the theory of reliability will be made image performance on the set of curves on which this nonlinear operator is monotone. Will be discussed some applications of this approach for more general nonlinear systems with nonunique solution and relations with differential topology, calculus of manifolds, and theory of fixed points. (Received August 07, 2000)