

1020-47-71

**S P Singh\*** ([ssingh55@rogers.com](mailto:ssingh55@rogers.com)), Memorial University, Dept of Mathematics and Statistics, St John's, NL A1C 5S7, Canada, and **Bruce Watson** and **M Singh**. *Best Approximation Theorem and Applications to Nonlinear Analysis*.

In this survey talk we will discuss the Best Approximation Theorem of Ky Fan and its extensions given by several researchers. In brief, a series of interesting applications in nonlinear analysis will be given. There will be illustrations of its applications in variational inequalities, fixed point theory and mathematical economics. (Received August 14, 2006)