

Uncontrollable Inaccuracy in Inverse Problems

Authors : Yu Menshikov

Abstract : In this paper the influence of errors of function derivatives in initial time which have been obtained by experiment (uncontrollable inaccuracy) to the results of inverse problem solution was investigated. It was shown that these errors distort the inverse problem solution as a rule near the beginning of interval where the solution are analyzed. Several methods for remove the influence of uncontrollable inaccuracy have been suggested.

Keywords : inverse problems, filtration, uncontrollable inaccuracy

Conference Title : ICIPSE 2015 : International Conference on Inverse Problems in Science and Engineering

Conference Location : Amsterdam, Netherlands

Conference Dates : August 06-07, 2015