ON THE MAJORANT PRINCIPLE APPLIED FOR SOLVING NON-LINEAR OPERATIONAL EQUATIONS

Abstract.

In this paper the possibility of using majorant principle for solving operational equation $P(x) = 0$ is studied $P(x)$ is an operation from the Banach space X to Y. As majorant the real equation $Q(z) = 0$ is considered.

The study is made for the case of tangent parabolae and tangent hyperbolae methods and for the method given in [6]. If $Q(z)$ has a particular form the results from [8], [9] and [6] are obtained.