

ON GROWTH OF GREEN'S FUNCTION OF STURM-LIOUVILLE PROBLEM
WITH COMPLEX DENSITY AT THE PARAMETER

Abstract

In the paper the spectral Sturm-Liouville problem is considered for equations whose characteristic functions (by Birkhoff) have non-constant arguments.

Estimations for Green's functions were obtained for increasing spectral parameter in different sectors of complex plane. Note that both considered problem and obtained estimations are new and weren't met in literature.