Abstract
In this paper we construct an exact series solution of mixed problems of the type \( \partial_x \partial_t u(x,t) - A(t)u(x,t) = 0 \), \( 0 < x < a \), \( t > 0 \), \( u(0,t) = u(a,t) = 0 \), \( u(x,0) = f(x) \). Here, \( u(x,t) \), \( f(x) \), \( A(t) \) are assumed to be bounded, \( u(x,t) \) is the solution of the equation.

Keywords
Partial differential equation system, fourier series, logarithmic norm.