

Suraya M. NAJAFOVA

THEOREMS ON CONTINUATION OF FUNCTIONS
BELONGING TO W -SPACES TYPE GENERAL
SPACES

Abstract

It is constructed a W -spaces type generalized space of functions $f = f(x)$ of points $x = (x_1; \dots; x_s) \in E_n$, $x_k = (x_{k,1}; \dots; x_{k,n_k})$ ($k = 1, 2, \dots, s$), determined in domain $G \subset E_n = E_{n_1} \times \dots \times E_{n_s}$ ($1 \leq s \leq n = n_1 + \dots + n_s$) satisfying the "σ-semihorn" condition.

The conditions under which theorems on continuation of functions $f = f(x)$ beyond the domain $G \subset E_n$ with preservation of appropriate smoothness properties are found.