On a Class of Vector-Valued Sequences Associated with Multiplier Sequences

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摘要   In this article we introduce the vector valued sequence

space $m(E_k, \phi, \Lambda)$, associated with the multiplier

sequence $\Lambda=(\lambda_k)$ of non-zero complex numbers, and

the terms of the sequence are chosen from the seminormed spaces

E_k, seminormed by f_k for all $k \in N$. This generalizes the

sequence space $m(\phi)$ introduced and studied by

Sargent$^{[10]}$. We study some of its properties like solidity,

completeness, and obtain some inclusion results. We also

characterize the multiplier problem and obtain the corresponding

spaces dual to $m(E_k, \phi, \Lambda)$. We prove some general

results too.

关键词   Multiplier sequence space, solid space, completeness, dual, symmetric space

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Abstract

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