

Thesis Title	Boundedness of Superposition Operators on Some Sequence Spaces	
Author	Mr. Pattanapong Tainchai	
M.S.	Mathematics	
Examining Committee :	Assist. Prof. Dr. Vites Longani	Chairman
	Lecturer Dr. Suthep Suantai	Member
	Prof. Dr. Sompong Dhompongsa	Member

Abstract

All sequence spaces studied in this research are ℓ_p , ℓ_∞ , c_0 , W , E_r , and F_r . The first purpose of this research is to find the representations of orthogonally additive functions which are continuous and order continuous on ℓ_∞ , E_r , and F_r . The second purpose is to find necessary and sufficient conditions for superposition functions F such that $F: X \rightarrow \ell_1$ when $X = \ell_\infty$, E_r , and F_r . The third purpose is to find necessary and sufficient conditions for boundedness of superposition functions F such that $F: X \rightarrow \ell_1$ when $X = \ell_p, \ell_\infty, c_0, W, E_r$, and F_r .

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
 Copyright© by Chiang Mai University
 All rights reserved