

Dedication

**To my parents , brothers,
sisters and husband**

Acknowledgement

Thanks to Alla who gave me the patience to conduct this study. I would like to thank my supervisor **Prof. Shawgy Hussein Abdalla** for his advice discussions during the preparation of the study of this dissertation. I would also like to thank my family for the great support and for their patience, before getting this work done. Full thanks to Mr. .Omran Ahmed for his good typing

Abstract

We show frames of the structure of Riesz bases, a method of sampling expansions on a semi-inner product and reproducing Kernel on Banach spaces with a norm. We also show that an integral formula for the duality between tensor products and homogenous polynomials on Banach spaces. James boundaries in dual Banach spaces are considered.

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تم توضيح الا طارات وبناء اساس ريس وطرد قة تفككات أخذ العينات في شبه الا ضرب الداخلي و نواة اعادة التوليد علي فضاءات باناخ طبقاً للنظيم. ايضاً تم توضيح صيغة التكامل لأجل الثنائية بين ضرب الممتدات وكثيرات الحدود المتجانسه علي فضاءات باناخ. تم إعتبار الحديات في فضاءات باناخ الثنائي.

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