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FUNCTIONAL ANALYSIS

Functional Analysis Problems with Solutions ANH QUANG LE, Ph.D. September 14, 2013. Contents Contents 1 1 Normed and Inner Product Spaces 3 2 Banach Spaces 15 3 Hilbert Spaces 27 ... Solution. (a) For the real field case, the polarization identity is $h x; y i = \frac{1}{4} (k x + y k^2 - k x - y k^2) : \dots$

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Solution: See Functional Analysis, S. Kesavan corollary 5.3.3, page-146 4.a) Show that every Banach space X is isometrically isomorphic to a closed linear subspace of $C(E)$ where E is a compact Hausdorff space. ... See B.V. Limaye Functional Analysis, Theorem 14.5, page-245. (c) For each n , define $e_n \in X$...

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FUNCTIONAL ANALYSIS: SOLUTIONS TO EXERCISE SHEET 4

Problem 1. (a) We have $\|T(f_n)\| = \sum_{k=1}^n \|f_k\|$. $\|T(f_n)\| = \sum_{k=1}^n \|f_k\| = \sum_{k=1}^n \sum_{j=1}^n \|f_k\| = \sum_{k=1}^n n \|f_k\| = n \sum_{k=1}^n \|f_k\| = n \|T(f_n)\|$. Therefore T is bounded. (b) It is easy to see that if $p = q$, then the operator T is bounded and $\|T\| = 1$. Therefore we ...

FUNCTIONAL ANALYSIS: SOLUTIONS TO EXERCISE SHEET 4 Problem ...

6.2 Examples II 3. We have to assume that $(Y; \|\cdot\|_Y)$ is a Banach space. Then if $x_n \in X$ and $x_n \rightarrow x$ (with $x \in V$) we know that $f(x_n)$ is Cauchy in V . So, since $f(x_n) \in Y$ and Y is complete, it follows that $f(x_n)$ is a Cauchy sequence in Y . Since Y is complete, we know that $\lim_{n \rightarrow \infty} f(x_n)$ exists and is an element of Y . If x

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Exam 21 April with solutions. Results. Exam 17 March with solutions. Some results. Literature: Kreyszig: Introductory Functional Analysis with Applications, John Wiley & Sons, New York 1989. Also: Short text on the spectral theorem for compact self-adjoint operators. The following text may also be helpful: Mathematical statements and proofs.

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Professor Limaye earned his PhD in mathematics from the University of Rochester, New York, in 1969. His research interests include algebraic analysis, numerical functional analysis and linear algebra. He has published more than 50 articles in refereed journals.

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Balmohan V. Limaye is Professor Emeritus in the Department of Mathematics at the Indian Institute of Technology (IIT) Bombay. He is the author of several research monographs and textbooks, including Linear Functional Analysis for Scientists and Engineers (Springer, 2016). He worked at IIT Bombay for more than 40 years and has twice received the ...

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