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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 $\langle x, y \rangle = \frac{1}{4} (\|x+y\|^2 - \|x-y\|^2)$: ...

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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 Hausdor space. ... See B.V.Limaye Functional Analysis, Theorem 14.5, page-245. (c) For each n , $\|e_n\| = 1$...

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FUNCTIONAL ANALYSIS: SOLUTIONS TO EXERCISE SHEET 4 Problem 1. (a) We have $\|T^n\| = \sup_{\|x\|=1} \|T^n x\| = \sup_{\|x\|=1} \|T(T^{n-1}x)\| \leq \|T\| \|T^{n-1}\| = \|T\|^n$. Therefore $\|T^n\| \leq \|T\|^n$. (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 $(Y, \|\cdot\|)$ is a Banach space. Then if $x_n \in X$ and $x_n \rightarrow x$ (with $x \in V$) we know that $\{x_n\}$ is Cauchy in V . So, since $\|F(x_n) - F(x_m)\| \leq \|x_n - x_m\|$ 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.

Funktionalanalys (Functional analysis), spring 2006.

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ABOUT THE AUTHOR In addition to Functional Analysis, Second Edition, Walter Rudin is the author of two other books: Principles of Mathematical Analysis and Real and Complex Analysis, whose widespread use is illustrated by the fact that they have been translated into a total of 13 languages. He wrote Principles of Mathematical Analysis while he was a C.L.E. Moore Instructor at the

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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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K. E. Atkinson, The numerical solutions of the eigenvalue problem for compact integral operators. Trans. Amer. Math. Soc. 129 1967 458-465, (1967). P. M. Anselone, Collectively compact operator approximation theory and applications to integral equations. With an appendix by Joel Davis. Prentice-Hall Series in Automatic Computation.

Functional Analysis, Approximation and Computation

This book provides a concise and meticulous introduction to functional analysis. Since the topic draws heavily on the interplay between the algebraic structure of a linear space and the distance structure of a metric space, functional analysis is increasingly gaining the attention of not only mathematicians but also scientists and engineers.

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