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We write  $C(X)$  for the algebra of all continuous functions on  $X$ , and  $C_b(X)$  for the algebra of bounded, continuous functions on  $X$ . Check that  $(C_b(X), |\cdot|)$  is a unital Banach algebra. Now take  $X$  to be a compact space (e.g.,  $X = I = [0,1]$ ). Then we have  $C_b(X) = C(X)$ , and so  $(C(X), |\cdot|)$  is a unital Banach algebra.

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A Banach algebra is an algebra  $A$  over the complex numbers equipped with a norm  $\| \cdot \|$  under which it is complete as a metric space, and such that  $\|AB\| \leq \|A\| \|B\|$  for all  $A, B \in A$ . (1.1)

1.2 EXAMPLE. For a locally compact Hausdorff space  $X$ , we write  $C_0(X)$  to denote the set of continuous complex valued functions on  $X$  that vanish at infinity.

## ~~INTRODUCTION TO OPERATOR ALGEBRAS – TUM~~

The algebra of all continuous linear operators on a Banach space  $E$  (with functional composition as multiplication and the operator norm as norm) is a unital Banach algebra. The set of all compact operators on  $E$  is a Banach algebra and closed ideal. It is without identity if  $\dim E = \infty$ .

## ~~Banach algebra – Wikipedia~~

and operator algebras. It is intended as a pedagogical companion for the beginner, an introduction to some of the main ideas in this area of analysis, a compendium of problems I think are useful in learning the subject, and an annotated reading/reference list.

## ~~Functional Analysis and Operator Algebras: An Introduction~~

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Banach space operators 41 2. The Fredholm Alternative 51 3. The algebra of Hilbert space operators 60 4. The spectral theorem for compact normal operators 66 5. Fredholm ...

## ~~An Introduction to Operator Algebras~~

The Banach  $*$ -algebra  $O(X)$  of 1.6 is a  $C^*$ -algebra; for it is well known that (1) holds for the operator norm of bounded linear operators on a Hilbert space. Thus, any norm-closed  $*$ -subalgebra of  $O(X)$  is a  $C^*$ -algebra.

## ~~Banach Algebras—an overview | ScienceDirect Topics~~

This introduction leads to the amenability of Banach algebras, which is the main focus of the book. Dual Banach algebras are given an in-depth exploration, as are Banach spaces, Banach homological algebra, and more. By covering amenability's many applications, the author offers a simultaneously expansive and detailed treatment.

## ~~Amenable Banach Algebras | SpringerLink~~

COPY. An Introduction to Operator Algebras is a concise text/reference that focuses on the fundamental results in operator algebras. Results discussed include Gelfand's representation of commutative  $C^*$ -algebras, the GNS construction, the spectral theorem, polar decomposition, von Neumann's double commutant theorem, Kaplansky's density theorem, the (continuous, Borel, and  $L^8$ ) functional calculus for normal operators, and type decomposition for von Neumann algebras.

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of Operators on Banach SPates book. By Caradus. Edition 1st Edition . First Published 1974 . eBook Published 19 October 2017 .

## ~~Calkin Algebras and Algebras of Operators on Banach SPates ...~~

An introduction to operator algebras by Kehe Zhu (1993) This gives a concise introduction to the basics of operator algebras and von Neumann algebras. I like the approach the author takes here and I've used this book before as a textbook for (half of) a course in operator algebras. I just wish that the book contained more results.

## ~~Jesse Peterson - Students~~

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