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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

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that $(C(X), \| \cdot \|)$ is a unital Banach algebra. Now take X to be a compact space (e.g., $X = I = [0,1]$). Then we have $C(X) = C(I)$, and so $(C(I), \| \cdot \|)$ is a unital Banach algebra.

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The remaining chapters are devoted to Banach algebras of operators on Banach spaces: Professor Eschmeier gives all the background for the exciting topic of invariant subspaces of operators, and discusses some key open problems; Dr Laursen and Professor Aiena discuss local spectral theory for operators, leading into Fredholm theory.

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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

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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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~~An Introduction to Operator Algebras~~

The Banach $*$ -algebra $\mathcal{O}(X)$ 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 $\mathcal{O}(X)$ is a C^* -algebra.

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This introduction leads to the amenability of Banach algebras, which is the main focus of the book. Dual Banach algebras are given an in-

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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.

~~An Introduction to Operator Algebras | Taylor & Francis Group~~

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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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