

CHAPTER 1

Bounded Operators

Examples of Operators; Inverses and the Neumann series; A nonlinear digression; The adjoint of an operator; Kernel and Cokernel; Compact Operators

Text books to look at: The theory of the adjoint operator, and the Riesz-theory of compact operators on a Banach space is treated in much greater detail in Rudin's book on Functional Analysis [5].

1. Example of Operators

1.1. Finite and infinite matrices. Linear maps between finite dimensional spaces are represented by matrices, i.e. a map $t : \mathbb{R}^n \rightarrow \mathbb{R}^m$ is specified by a matrix $\{T_{ij} : 1 \leq i \leq m, 1 \leq j \leq n\}$ via

$$(21) \quad (Tx)_i = \sum_{j=1}^n T_{ij}x_j.$$

The most direct generalization are linear maps on ℓ^p spaces specified by infinite matrices. Let $\{T_{ij} : i, j \in \mathbb{N}\}$ be an infinite matrix.

Exercise 1. (i) suppose

$$(22) \quad \sup_{i \in \mathbb{N}} \sum_{j \in \mathbb{N}} |T_{ij}| = M < \infty.$$

show that $(Tx)_i = \sum_{j \in \mathbb{N}} T_{ij}x_j$ defines a bounded linear map $T : \ell^\infty \rightarrow \ell^\infty$.

(ii) suppose

$$(23) \quad \sup_{j \in \mathbb{N}} \sum_{i \in \mathbb{N}} |T_{ij}| = M' < \infty.$$

Show that $(Tx)_i = \sum_{j \in \mathbb{N}} T_{ij}x_j$ defines a bounded linear map $t : \ell^1 \rightarrow \ell^1$.

Bounded And Compact Integral Operators

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IM Harris



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