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 $t : \mathbb{R}^n \to \mathbb{R}^m$ is specified by a matrix $\{T_{ij} : 1 \le i \le m, 1 \le j \le n\}$ via

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

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 $(T_x)_i = \sum_{j \in \mathbb{N}} T_{ij} x_j$ defines a bounded linear map $T : \ell^{\infty} \to \ell^{\infty}$. (iii) suppose

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

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

LL Leslie

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