

Table of Contents

1. Schauder Bases	1
a. Existence of Bases and Examples	1
b. Schauder Bases and Duality	7
c. Unconditional Bases	15
d. Examples of Spaces Without an Unconditional Basis	24
e. The Approximation Property	29
f. Biorthogonal Systems	42
g. Schauder Decompositions	47
2. The Spaces c_0 and l_p	53
a. Projections in c_0 and l_p and Characterizations of these Spaces	53
b. Absolutely Summing Operators and Uniqueness of Unconditional Bases	63
c. Fredholm Operators, Strictly Singular Operators and Complemented Subspaces of $l_p \oplus l_r$	75
d. Subspaces of c_0 and l_p and the Approximation Property, Complementably Universal Spaces	84
e. Banach Spaces Containing l_p or c_0	95
f. Extension and Lifting Properties, Automorphisms of l_∞ , c_0 and l_1	104
3. Symmetric Bases.	113
a. Properties of Symmetric Bases, Examples and Special Block Bases	113
b. Subspaces of Spaces with a Symmetric Basis	123
4. Orlicz Sequence Spaces	137
a. Subspaces of Orlicz Sequence Spaces which have a Symmetric Basis	137
b. Duality and Complemented Subspaces	147
c. Examples of Orlicz Sequence Spaces	156
d. Modular Sequence Spaces and Subspaces of $l_p \oplus l_r$	166
e. Lorentz Sequence Spaces	175
References	180
Subject Index	185