

Contents

Introduction	1
I. The Blocking Technique	7
1 Norms in Section Form and Norms in Block Form	7
2 Transformation from Block Form into Section Form	8
3 Transformation from Section Form into Block Form	16
4 Comments	19
II. The Sequence Spaces $c(a, p, q)$ and $d(a, p, q)$	23
5 The Spaces c and d , and $l(p, q)$	23
6 Structure of the Spaces c and d	25
7 Multipliers and Duality	30
8 Products and Factorisations	40
III. Applications to Matrix Operators and Inequalities	49
9 Factorable Matrices as Operators on l^p and Hardy's Inequality .	49
10 Lower Bounds for Factorable Matrices and Copson's Inequality .	57
11 Reverse Hardy-Copson-Higaki Inequalities	63
12 Reverse Copson-Takahashi Inequalities, and a New Inequality .	66
13 Further Applications	69
IV. Integral Analogues	77
14 Introduction	77
15 The Blocking Technique	79
16 The Function Spaces $C(u, p, q)$, $D(u, p, q)$ and (L^p, l^q, t)	84
17 The Inequalities of Hardy and Copson with Weights	85
18 Further Applications	88
A. Equivalence of Section Conditions with Block Conditions	93
19 The Discrete Case	93
20 The Integral Analogue	98
References	105
Index	111