

Contents

Introduction	1
Chapter 1. General results about H.I. spaces	11
Chapter 2. Schreier families and repeated averages	15
Chapter 3. The space $X = T \left[G, \left(\mathcal{S}_{n_j}, \frac{1}{m_j} \right)_j, D \right]$ and the auxiliary space T_{ad}	21
Chapter 4. The basic inequality	29
Chapter 5. Special convex combinations in X	39
Chapter 6. Rapidly increasing sequences	43
Chapter 7. Defining D to obtain a H.I. space X_G	49
Chapter 8. The predual $(X_G)_*$ of X_G is also H.I.	57
Chapter 9. The structure of the space of operators $\mathcal{L}(X_G)$	61
Chapter 10. Defining G to obtain a nonseparable H.I. space X_G^*	69
Chapter 11. Complemented embedding of ℓ^p , $1 \leq p < \infty$, in the duals of H.I. spaces	79
Chapter 12. Compact families in \mathbb{N}	85
Chapter 13. The space $X_G = T \left[G, (\mathcal{S}_{\xi_j}, \frac{1}{m_j})_j, D \right]$ for an \mathcal{S}_ξ bounded set G	91
Chapter 14. Quotients of H.I. spaces	103
Bibliography	113