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The main goals of this book are to: introduce the reader to some of the basic concepts, results and applications of biorthogonal systems in infinite dimensional geometry of Banach spaces, and in topology and nonlinear analysis in Banach spaces, aim the text at graduate students and researchers who have a foundation in Banach space theory, expose the reader to some current avenues of research in biorthogonal systems in Banach spaces, provide notes and exercises related to the topic, suggest ...

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(5) Since every infinite dimensional Banach space X contains an infinite Auerbach system, that is, a biorthogonal system  $\{(x_n, x^* n) : n \in \mathbb{N}\}$  such that  $x_n = x^* n = 1$ , for  $n \in \mathbb{N}$ , (see [6 ...

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A separable Banach space X contains #1 isomorphically if and only if X has a bounded fundamental total w# 0-stable biorthogonal system. The dual of a separable Banach space X fails the Schur ...

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fundamental biorthogonal system for every Banach space of density!1. These latter results are typically obtained by using powerful in?nite combinatorial methodsin the form of additional axioms in ZFC. Many Banach spaces with nice structural and renormability properties can be classi?ed according to the types of Markushevich bases they possess. Chap-

**BIORTHOGONAL SYSTEMS IN BANACH SPACES**

- Biorthogonal Systems in Separable Banach Spaces - Universality and Szlenk Index - Weak Topologies and Renormings - Biorthogonal Systems in Nonseparable Spaces - Transfinite Sequence Spaces - Applications. Petr Hájek is Professor of Mathematics at the Mathematical Institute of the Academy of Sciences of the Czech Republic. Vicente Montesinos is

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BOUNDEDNESS OF BIORTHOGONAL SYSTEMS IN BANACH SPACES 2 P-class has a strong M-basis [HMVZ, Theorem 5.1]. We recall here that a class C of Banach spaces is a P-class if, for every X 2 C, there exists a projectional resolution of the identity (P?) $\times$ \* (where „ is the ?rst ordinal with cardinal densX) such that (P?) $\times$ 1 | P?X 2 C for all ? 2 [!..

**BOUNDEDNESS OF BIORTHOGONAL SYSTEMS IN BANACH**

rable Banach space has a certain property if and only if there is structure in the space which re?ects the property. One useful basis-like structure that has been considered for a long time is that of fundamental total biorthogonal system. Markushevich [M] showed in 1943 that each separable Banach space contains a fundamental total bi-

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