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Biorthogonal Systems in Banach Spaces (CMS Books in Mathematics) 2008th Edition. by Petr Hajek (Author), Vicente Montesinos Santalucia (Author), Jon Vanderwerff (Author), Vaclav Zizler (Author) & 1 more. ISBN-13: 978-0387689142.

Biorthogonal Systems in Banach Spaces (CMS Books in ...
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- 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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(5) Since every infinite dimensional Banach space X contains an infinite Auerbach system, that is, a biorthogonal system {(x n , x * n) : n ∈ N} such that x n = x * n = 1, for n ∈ N, (see [6 ...

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BOUNDEDNESS OF BIORTHOGONAL SYSTEMS IN BANACH
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We give biorthogonal system characterizations of Banach spaces that fail the Dunford-Pettis property, contain an isomorphic copy of c0, or fail the hereditary Dunford-Pettis property. We combine this with previous results to show that each infinite dimensional Banach space has one of three types of biorthogonal systems.

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bases for biorthogonal systems in the setting of quasi-Banach spaces. From there, the theory of greedy bases and its derivates evolved very fast as many fundamental results were discovered and new ramifications branched out; but these advances were achieved solely for Schauder bases in Banach spaces.

arXiv:1903.11651v1 [math.FA] 27 Mar 2019
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admits a total biorthogonal system, (xi, ui¿)ci¿cI such that the closed linear hull of {x~ : jE I} is a weakly compactI>' generated Banach space. We also prove that it' Y in a weakly compactly convex-determined nonned subspace of a Banach space A? with dens Y > devis ,K then there is a total biortbogonal system (x¿, ~¿»cI for

Biorthogonal systems in certain Banach spaces.
A separable Banach space X contains'1isomorphically if and only if X has a bounded fundamental totalwc0-stable biorthogonal system. The dual of a separable Banach space X fails the Schur prop- erty if and only if X has a bounded fundamental totalwc0-biorthogonal system. 1.

GEOMETRY OF BANACH SPACES AND BIORTHOGONAL SYSTEMS
We gather folkloric facts and survey recent results like that of Lopez-Abad and Todorcevic that it is consistent that there is a Banach space X without uncountable biorthogonal systems such that the spread of the dual ball is uncountable or that of Brech and Koszmider that it is consistent that there is a compact space where spread of the square of K ic countable but C(K) has uncountable biorthogonal systems.

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