

Solving the problem of oblique dual frame completion

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Oblique dual frames (ODFs) are used in applications where analysis and synthesis are performed in different subspaces, eg. when working with large data sets, or when the given data needs to be combined locally. The local constraints may dictate the structure of the ODF, and certain vectors may be essential as part of the ODF. We solve the problem of ODF completion when only part of the ODF is known, and explore the conditions when this problem has a solution. We reflect on the relevant results for dual frame completion, and show that these can be seen as a special case of our new results.

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