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## Bond Hybrids and the Structures of the Lanthanide Metals

[Abstract]

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### Recommended Citation

Langley, R. H. "Bond Hybrids and the Structures of the Lanthanide Metals." *physica status solidi (b)* 111.2 (1982): 501-505.

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## Langley Bond Hybrids Abstract

The ideas developed by Altmann, Coulson, and Hume-Rothery to relate bond hybrids to metal structures are extended to include treatment of the f orbitals. A discussion of the possible hybrids along with their application to the lanthanide metals will be considered.