OBSTACLES ON THE ROAD TO PRACTICAL IMPLEMENTATIONS OF DMFT

Jerzy Cioslowski

Institute of Physics, University of Szczecin, Wielkopolska 15,
70-451 Szczecin, Poland

Common misconceptions concerning the construction and properties of approximate 1-matrix functionals for electronic energies are reviewed. The convergence of electronic properties computed within DMFT employing finite basis sets to the complete-basis-set limit is discussed. The difficulties encountered during attempts at the incorporation of explicit correlation factors into 1-matrices are revealed.