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Nota di contenuto	1. Introduction -- 2. Basic ideas of Hilbert space analysis -- 3. A common framework : atomic resolution of identity -- 4. Analysis of the first-order density in Hilbert space -- 5. Effective AOs and effective minimal basis sets -- 6. Bond order and valence indices in the Hilbert space -- 7. Open-shell systems and local spins -- 8. Energy components in the Hilbert space -- 9. Analysis in the three-dimensional space.