



Elements of Synthesis Planning

By R. W. Hoffmann

Springer Jan 2009, 2009. Taschenbuch. Book Condition: Neu. 235x155x13 mm. This item is printed on demand - Print on Demand Titel. Neuware - Synthesis is at the core of organic chemistry. In order for compounds to be studied-be it as drugs, materials, or because of their physical properties- they have to be prepared, often in multistep synthetic sequences. Thus, the target compound is at the outset of synthesis planning. Synthesis involves creating the target compound from smaller, readily available building blocks. Immediately, questions arise: From which building blocks in which sequence By which reactions Nature creates many highly complex 'natural products' via reaction cascades, in which an assembly of starting compounds present within the cell is transformed by specific (for each target structure) combinations of modular enzymes in specific sequences into the target compounds [1, 2]. To mimic this efficiency is the dream of an ideal synthesis [2]. However, we are at present so far from realizing such a 'one-pot' operation that actual synthesis has to be achieved via a sequence of individual discrete steps. Thus, we are left with the task of planning each synthesis individually in an optimal fashion. Synthesis planning...

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