



Applications of Domino Transformations in Organic Synthesis, Workbench Edition

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Description

The rapid pace of evolution in domino, or cascade-based transformations has revolutionized the practice of chemical synthesis for the creation of natural products, designed molecules, and pharmaceuticals.

"Science of Synthesis: Applications of Domino Transformations in Organic Synthesis" explores the topic thoroughly and systematically, serving as the basis for practical applications and future research. The 2-volume set presents the cutting-edge in terms of design, strategy, and experimental procedures, leading to multiple events being accomplished within a single reaction vessel. The content is organized by the core type of reaction used to initiate the event, be it a pericyclic reaction, a metal-mediated transformation, radical chemistry, or an acid-induced cascade among many others.

[Volume 1](#) covers polyene/cation- π cyclizations, metathesis, radical, and metal-mediated reactions, and non-radical skeletal rearrangements.

[Volume 2](#) covers pericyclic reactions (Diels-Alder, sigmatropic shifts, ene reactions), dearomatizations, and additions to C-O/C-N multiple bonds.