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## Sommario/riassunto

There are hardly more versatile compounds in organic synthesis than carbene complexes. The rapid development of new synthetic methods involving carbene complexes - stereoselective cyclopropanation, carbonyl olefination, olefin metathesis, etc. - reveals the value and high potential of these compounds. Their application ranges from the synthesis of fine chemicals to polymer production. This comprehensive, well structured handbook presents the fundamental principles and the recent advances in carbene complex chemistry. Arranged according to structure and reactivity, all relevant classes