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Nota di contenuto	Chapter 1. Modes of reagent addition : control of impurity formation -- Chapter 2. Process optimization -- Chapter 3. Hazardous reactions -- Chapter 4. Catalytic reactions -- Chapter 5. Grignard reagent and

related reactions -- Chapter 6. Challenging reaction intermediates -- Chapter 7. Protecting groups -- Chapter 8. Reaction solvents -- Chapter 9. Base reagent selection -- Chapter 10. Reagents for amide formation -- Chapter 11. Various reagent surrogates -- Chapter 12. Telescope approach -- Chapter 13. Stereochemistry -- Chapter 14. Design of new synthetic route -- Chapter 15. Reaction workup -- Chapter 16. Pharmaceutical salts -- Chapter 17. Solid form.

Sommario/riassunto

The Handbook for Chemical Process Research and Development focuses on developing processes for chemical and pharmaceutical industries. Forty years ago there were few process research and development activities in the pharmaceutical industry, partially due to the simplicity of the drug molecules. However, with the increasing structural complexity, especially the introduction of chiral centers into the drug molecules and strict regulations set by the EMA and FDA, process R&D has become one of the critical departments for pharmaceutical companies. This book assists with the key responsibility of process chemists to develop chemical processes for manufacturing pharmaceutical intermediates and final drug substances for clinical studies and commercial production.
