

## 有机合成的16本教科书

中国化学化工论坛

**Advanced Organic Chemistry, Part B, 4<sup>th</sup> ed.** (Carey/Sundberg; Plenum, 2001) - readable summary, great leading refs.

**Advanced Organic Chemistry, 5<sup>th</sup> ed.** (Smith/March; Wiley, 2001) - summary/encyclopedia of reactions, >2000 refs.

**Art in Organic Synthesis, 2<sup>nd</sup> ed.** (Anand/Bitra/Randanathan; Wiley, 1988) - discussions of classic syntheses

**Classic in Total Synthesis** (Nicolaou/Sorenson; VCH, 1996) - insightful, expert discussion of great total syntheses

**Compendium of Organic Synthetic Methods** (var. Eds.; Wiley) - 10 vol. set with easy tabular indices.

**Comprehensive Organic Transformations** (Larock) - index is an acquired skill, but leading refereces are very numerous

**Concepts of Organic Synthesis - Carbocyclic Chemistry** (Mundy; Dekker, 1979) - dated, but a very nice overview

**Evolution of Synthetic Pathways - Parallax and Calibration** (Ho; World Sci., 1996) - analysis of total syntheses; chapters are Chemoselectivity Problems, Stereochemical Problems, and Regiochemical Problems. Assumes much synthesis knowledge.

**The Logic of Chemical Synthesis** (Corey/Cheng) - great discussion of strategy by one of the true masters

**Name Reactions and Reagents in Organic Synthesis** (Mundy/Ellerd; Wiley, 1988) - nice discussions with examples

**The Organic Chemistry of Drug Synthesis** (var. Eds.; Wiley) - six vol. set; some very useful transformations

**Organic Synthesis - The Disconnection Approach** (Warren; Wiley, 1982) - a little old, but excellent for learning retrosynthetic analysis

**Protective Groups in Organic Synthesis, 3<sup>rd</sup> Ed.** (Greene/Wuts; Wiley, 1999) - the best compilation around

**Strategies for Organic Drug Synthesis and Design** (Lednicer; Wiley, 1998) - arranged by compound type

**Tactics of Organic Synthesis** (Ho; Wiley, 1994) - excellent discussion of reaction types and their utility; upper level

**The Total Synthesis of Natural Products** (J. ApSimon, Ed.) - 11vol. set; each vol. has 1-4 chapters on N.P. families [Tables of Contents]

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