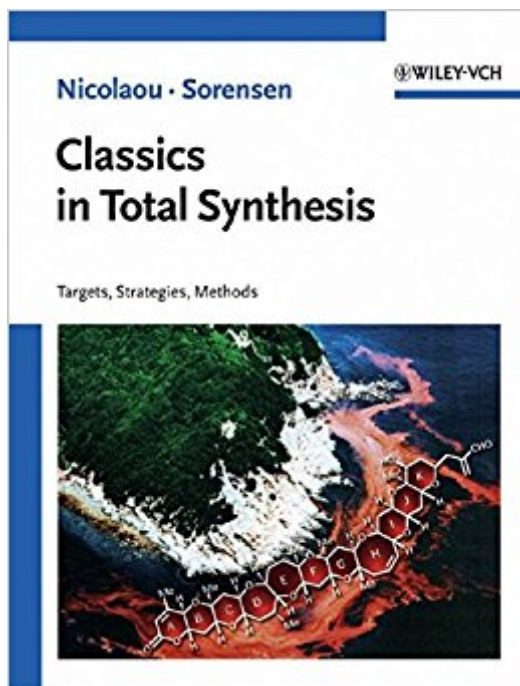


The book was found

Classics In Total Synthesis: Targets, Strategies, Methods



Synopsis

K.C. Nicolaou - Winner of the Nemitsas Prize 2014 in Chemistry This book is a must for every synthetic chemist. With didactic skill and clarity, K. C. Nicolaou and E. Sorensen present the most remarkable and ingenious total syntheses from outstanding synthetic organic chemists. To make the complex strategies more accessible, especially to the novice, each total synthesis is analyzed retrosynthetically. The authors then carefully explain each synthetic step and give hints on alternative methods and potential pitfalls. Numerous references to useful reviews and the original literature make this book an indispensable source of further information. Special emphasis is placed on the skillful use of graphics and schemes: Retrosynthetic analyses, reaction sequences, and stereochemically crucial steps are presented in boxed sections within the text. For easy reference, key intermediates are also shown in the margins. Graduate students and researchers alike will find this book a gold mine of useful information essential for their daily work. Every synthetic organic chemist will want to have a copy on his or her desk.

Book Information

Paperback: 821 pages

Publisher: Wiley-VCH; 1 edition (April 11, 1996)

Language: English

ISBN-10: 3527292314

ISBN-13: 978-3527292318

Product Dimensions: 7.6 x 1.6 x 9.9 inches

Shipping Weight: 4.3 pounds (View shipping rates and policies)

Average Customer Review: 4.8 out of 5 stars [See all reviews](#) (8 customer reviews)

Best Sellers Rank: #723,587 in Books (See Top 100 in Books) #11 in [Books > Science & Math > Chemistry > Organic > Synthesis](#) #179 in [Books > Science & Math > Chemistry > Analytic](#) #200 in [Books > Science & Math > Chemistry > Physical & Theoretical > Physical Chemistry](#)

Customer Reviews

The more I read and study out from the book, the more I appreciate the beauty of it. Nicolaou and Sorensen's Classics in Total Synthesis is the most widely consulted title on organic synthesis. As many have commented, this book is a must for every synthetic organic chemist, organic student and researcher. Released in 1995, despite the advances in synthetic methodology, Nicolaou has presented some of the most remarkable and ingenious total syntheses from laboratories of the world's most prominent organic chemists. Molecules adopted include strychnine, prostaglandin,

progesterone, vitamin B12, erythronolide B, monensin, endiandric acids, biotin, hirsutene, capnellene, methyl homosecodaphniphyllate, calicheamicin and more. Nicolaou has done an incredible favor to make the strategies more understandable and accessible. For each molecule, the total synthesis begins with a thorough retrosynthetic analysis. Sometimes more than one retrosynthetic routes are introduced in order to show the possibilities of finding the most efficient synthesis. Nicolaou then meticulously describe each step in synthesis with referral to important named reactions such as the Noyori asymmetric reduction, Luche reaction, Johnson Claisen rearrangement, Julia olefination, etc. With such didactic skill and clarity, Nicolaou has taught the gist of synthesizing complex molecules from commercially available building blocks. A great way to use the book and learn organic synthesis would be to write down every single step on a separate piece of paper and understand what each step does in the overall total synthesis. The synthesis steps and important reactions are presented in schemes with blue background sections, with emphasis on asymmetric synthesis, catalysts, stereochemistry and mechanism.

[Download to continue reading...](#)

Classics in Total Synthesis: Targets, Strategies, Methods Classics in Total Synthesis Learning Targets: Helping Students Aim for Understanding in Today's Lesson Viral Proteinases As Targets for Chemotherapy (Current Communications in Cell and Molecular Biology) Antibiotics: Targets, Mechanisms and Resistance Long-Range Precision Rifle, Expanded Edition: The Complete Guide to Hitting Targets at Distance Molecular Biology of Cancer: Mechanisms, Targets, and Therapeutics Chilton Total Car Care Chrysler PT Cruiser, 2001-2010 Repair Manual (Chilton's Total Car Care Repair Manuals) Fundamentos de prostodoncia total / Fundamentals of total prosthodontics (Spanish Edition) Prostodoncia total/ Total Prosthodontics (Spanish Edition) La TransformaciÃ³n Total de su Dinero [The Total Money Makeover]: Un plan efectivo para alcanzar bienestar econÃ3mico [An effective plan to achieve economic welfare] High Throughput Screening: Methods and Protocols (Methods in Molecular Biology) (Methods in Molecular Biology, 190) More Dead Ends and Detours: En Route to Successful Total Synthesis The Total Synthesis of Natural Products, Volume 8 Lead Generation: Methods and Strategies, Volume 67 (Methods and Principles in Medicinal Chemistry) The Organic Chemistry of Drug Synthesis, Volume 3 (Organic Chemistry Series of Drug Synthesis) Imidazole and Benzimidazole Synthesis (Best Synthetic Methods) Enantioselective Chemical Synthesis: Methods, Logic, and Practice Organic Synthesis: Concepts and Methods Modern Catalytic Methods for Organic Synthesis with Diazo Compounds: From Cyclopropanes to Ylides

[Dmca](#)