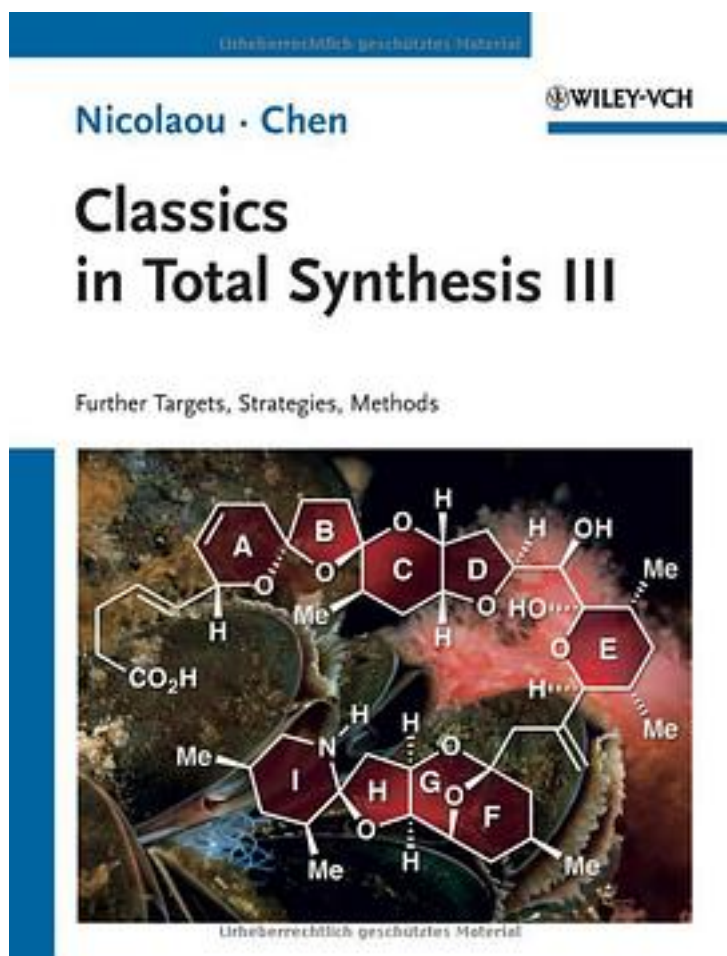


Classics in Total Synthesis III: Further Targets, Strategies, Methods



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出版者:Wiley-VCH

出版时间:2011-2

装帧:Paperback

isbn:9783527329571

Product Description

Adopting his didactically skillful approach, K.C. Nicolaou compiles in this textbook the important synthetic methods that lead to a complex molecule with valuable properties. He explains all the key steps of the synthetic pathway, highlighting the major developments in blue-boxed sections and contrasting these to other synthetic methods.

A wonderful tool for learning and teaching and a must-have for all future and present organic and biochemists.

From the Back Cover

Retaining his excellent, proven approach, world-famous chemist and passionate teacher K.C. Nicolaou and his student Jason S. Chen compile here the important strategies and tools employed to construct complex molecules. Through 42 syntheses of 25 challenging natural products they explain the key steps of the synthetic pathway, highlighting the major developments for easier understanding, and contrasting these to other synthetic methods. Similar to its predecessors and completing a trilogy, this textbook analyzes the syntheses in a didactic manner, with several chapters including mini-reviews of key methodologies, and an emphasis on the history, mechanism, scope, and generality of the reactions. In contrast to the first two volumes, this new one features full-color frontispieces.

A wonderful tool for learning and teaching, and a must-have for all current and future organic, medicinal and biological chemists.

From reviews of “Classics in Total Synthesis” , Volumes I and II:

“...a volume, (..) which any chemist with an interest in synthetic organic chemistry will wish to acquire.” –JACS

“...this superb book (..) will be an essential purchase for many organic chemists.” –Nature

“...Classics II is undoubtedly an excellent bargain that is highly recommended to everybody interested in advanced organic chemistry. ...” –Angewandte Chemie

作者介绍:

K. C. Nicolaou is Professor of Chemistry at the University of California, San Diego and is Chairman of the Department of Chemistry and holds the Skaggs Professorship of Chemical Biology and the Darlene Shiley Chair in Chemistry at The Scripps Research Institute. He studied chemistry at the University of London, and finished his Ph.D. in 1972 with Professors Sondheimer and Garratt. After his postdocs at Columbia University with Professor Katz and Harvard University with Professor Corey, he joined the University of Pennsylvania, before accepting appointments at the University of California in San Diego. His impact on chemistry flows from his works in chemical synthesis and chemical biology described in over 550 publications and 55 patents, and he received numerous awards from all over the world. His book "Classics in Total Synthesis I and II" are long- and bestsellers as well as indispensable in view of chemical education in the strategy of organic synthesis.

Jason S. Chen received his AB and AM degrees in 2001 from Harvard University, where he performed research in the group of Professor Matthew D. Shair. He then joined

Enanta Pharmaceuticals (USA) as a medicinal chemist studying novel cyclosporine analogs. He joined K.C. Nicolaou's group at the Scripps Research Institute in 2003. In 2008, he completed his Ph.D. on the total synthesis and biological evaluation of uncialamycin. He is working currently as a research associate in K.C. Nicolaou's laboratory.

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