



Classics in Total Synthesis II: More Targets, Strategies, Methods (Biotechnology: a Multi-Volume Comprehensive Treatise) (Vol. 2)

By K. C. Nicolaou, S. A. Snyder

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This is the long awaited sequel to "Classics in Total Synthesis", a book that has made its mark as a superb tool for educating students and practitioners alike in the art of organic synthesis since its introduction in 1996. In this highly welcomed new volume, K. C. Nicolaou and Scott A. Snyder discuss in detail the most impressive accomplishments in natural product total synthesis during the 1990s and the first years of the 21st century. While all of the features that made the first volume of "Classics" so popular and unique as a teaching tool have been maintained, in this new treatise the authors seek to present the latest techniques and advances in organic synthesis as they beautifully describe the works of some of the most renowned synthetic organic chemists of our time. This book: Develops domino reactions, cascade sequences, biomimetic strategies, and asymmetric catalysis are systematically through the chosen synthesis; discusses the latest synthetic technologies in terms of mechanism and scope; includes new reactions, such as olefin metathesis, in mini-review style; abundant references for further reading; and, a CD with useful teaching material for lecturers is included with hardback version. Graduate students, educators, and researchers in the fields of synthetic and medicinal chemistry will wish to have a copy of this book in their collection as an indispensable companion that both augments and supplements the original "Classics in Total Synthesis". From reviews of "Classics in Total Synthesis": '...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".

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Editorial Review

Review

"...Classics II is undoubtedly an excellent bargain that is highly recommended to everybody interested in advanced organic chemistry. One of my co-workers confessed that Classics I was the book on his bedside table while he prepared his thesis defense. Isn't that the highest distinction for a monograph? I have every reason to believe that Classics II will equally stand the selection process by students (and probably their supervisors too)."

Alois Fürstner; Max-Planck-Institut für Kohlenforschung

In: Angewandte Chemie, 2004

"Well, there is a new pleasant read for the advanced student and even the experienced. It is the second volume to the established Classics in Total Synthesis and it continues the series extremely well."

Boris Schmidt, Gregor Larbig

Darmstadt University of Technology

ChemBioChem 6/2004

"...the real innovation of this volume is the inclusion of alternative pathways to the same target molecule by other researchers. This enables the reader to appreciate that there are also other solutions to certain structural problems than those of the original synthesis. ... Let us hope that K. C. Nicolaou and his associates will present us with these future achievements in the same clear, informative and innovative format they have with the previous two volumes."

Applied Organometallic Chemistry

From the Back Cover

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- domino reactions, cascade sequences, biomimetic strategies, and asymmetric catalysis are systematically developed through the chosen synthesis
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- new reactions, such as olefin metathesis, are presented in mini-review style
- abundant references are given for further reading

Graduate students, educators, and researchers in the fields of synthetic and medicinal chemistry will wish to have a copy of this book in their collection as an indispensable companion that both augments and supplements the original *Classics in Total Synthesis*.

About the Author

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. His impact on chemistry, biology and medicine flows from his works in chemical synthesis and chemical biology described in over 550 publications and 55 patents. For his contributions to research and education, he was elected a Member of the National Academy of Science, USA, a Fellow of the American Academy of Arts and Sciences, and a Foreign Member of the Academy of Athens, Greece, and received numerous prizes, awards and honors.

Scott A Snyder received his B.A. degree in Chemistry from Williams College in 1999, and then began graduate studies at The Scripps Research Institute under the guidance of Prof. K.C. Nicolaou. He is the recipient of a Barry M. Goldwater Fellowship in Science and Engineering, a National Science Foundation Predoctoral Fellowship, and a Graduate Fellowship from Pfizer, Inc.

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