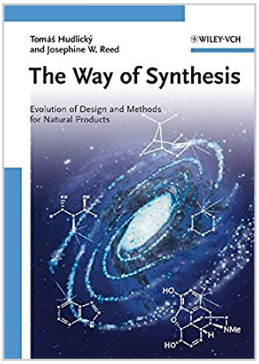

The Way of Synthesis

By Tomas Hudlicky, Josephine W. Reed

The Way of Synthesis By Tomas Hudlicky, Josephine W. Reed

This two-colored textbook presents not only synthetic ways to design organic compounds, it also contains a compilation of the most important total synthesis of the last 50 years with a comparative view of multiple designs for the same targets. It explains different tactics and strategies, making it easy to apply to many problems, regardless of the synthetic question in hand. Following a historical view of the evolution of synthesis, the book goes on to look at principles and issues impacting synthesis and design as well as principles and issues of methods. The sections on comparative design cover classics in terpenes and alkaloid synthesis, while a further section covers such miscellaneous syntheses as Maytansine, Palytoxin, Brevetoxin B and Indinavir. The whole is rounded off with a look at future perspectives and, what makes this textbook extraordinairy, with personal recollections of the chemists, who synthesized these fascinating compounds.
With its attractive layout highlighting key parts and tactics using a second color, this is a useful tool for organic chemists, lecturers and students in chemistry, as well as those working in the chemical industry.

"I think, as will many organic chemists, that the Hudlicky book will be the Bible of synthetic organic chemistry, the past, the present and the future. A hallmark publication." (Victor Snieckus)

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The Way of Synthesis By Tomas Hudlicky, Josephine W. Reed Bibliography

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Editorial Review

Review
"Hudlick and Reed produced a fascinating read featuring numerous epigraphs, quotations, and personal remarks for synthetic chemists at all levels." (*CHOICE*, February 2008)

"...The Way of Synthesis provides much information for its price." (*Angewandte International Edition*, December 2007)

From the Back Cover
At the heart of organic chemistry is the effective synthesis of natural products or compounds, which are important for pharmaceuticals and agrochemicals, for example. These syntheses often include new reactions and novel concepts in organic chemistry, such that there is always a need for innovative strategies and improved methods.
This textbook presents not only synthetic ways to design organic compounds, it also contains a compilation of total synthesis with a comparative view of multiple designs for the same targets. It explains different tactics and strategies, making it easy to apply to many problems, whatever the synthetic question in hand. Following a historical view of the evolution of synthesis, the book goes on to look at principles and issues impacting synthesis and design as well as principles and issues of methods. The sections on comparative design cover classics in terpenes and alkaloid synthesis, while a further section covers such miscellaneous syntheses as Maytansine, Palytoxin, Brevetoxin B and Indinavir. The whole is rounded off with a look at future perspectives.
With its attractive layout highlighting key parts and tactics using a second color this is a useful tool for organic chemists, lecturers and students in chemistry, as well as those working in the chemical industry.

A native of North Carolina, Josephine Reed was educated at the University of North Carolina at Greensboro (B.A., English), Appalachian State University (B.A., biology and chemistry), and Virginia Tech (Ph.D., chemistry). Besides her many, many years as a student, she has spent time as a department store clerk, a waitress, a banker, a bartender, and a chemistry instructor. She continues her eclectic career at Brock University in St. Catharines, Ontario, where she shares her life and her work with the co-author and their son. Still an English major at heart, Josie has always had a secret desire to be a writer, preferably a poet, and is delighted to be a part of the making of this book.

Tomas Hudlicky was born and raised in Prague, Czechoslovakia and emigrated to the US in 1968. He received his PhD in 1977 under the direction of Professor Ernest Wenkert in the field of indole alkaloid total synthesis. He then spent a year at the University of Geneva working under the late Professor Wolfgang Oppolzer on the synthesis of isocomene. He began his academic career in 1978 at the Illinois Institute of Technology and moved to Virginia tech (1982) and to the University of Florida(1995). In 2003, he accepted an offer from Brock University where he currently holds the position of Canada Research Chair professor of Organic synthesis and Biocatalysis. His current research interests include the development of enantioselective synthetic methods, bacterial dioxygenase-mediated degradation of aromatics and isolation of chiral metabolites for use in asymmetric synthesis, design and synthesis of fluorinated inhalation anesthetic agents, synthesis of morphine and Amaryllidaceae alkaloids, organic electrochemistry, and design of unnatural oligo-saccharide conjugates and polymers with new molecular properties. His hobbies include martial arts, music, hockey, and skiing and he enjoys all of these with his 17 year old son Jason.

About the Author
Tomas Hudlicky was born in Prague, Czechoslovakia, and emigrated to the US in 1968. He received his PhD in 1977 under Professor Ernest Wenkert, and subsequently spent a year at the University of Geneva working under Professor Wolfgang Oppolzer on the synthesis of isocomene. He began his academic career in 1978 at the Illinois Institute of Technology, before moving to Virginia tech in 1982 and then the University of Florida in 1995. In 2003, he accepted a chair at Brock University where he is currently professor of organic synthesis and biocatalysis. Professor Hudlicky's research interests include the development of enantioselective synthetic methods, bacterial dioxygenase-mediated degradation of aromatics and the isolation of chiral metabolites for use in asymmetric synthesis.

Josephine Wiley Reed was born and raised in North Carolina, receiving her PhD under Professor David Kingston at Virginia Tech in 1988. She holds a BA in biology with chemistry minor from the Appalachian State University and a BA in English from the University of North Carolina in Greensboro. She has taught organic chemistry courses at Virginia Tech and has held the position of Senior Research Associate at Virginia Tech, University of Florida and Brock University since 1989. She has also served as the editorial assistant for the North American Editorial Office of J. Chem. Soc. Perkin Trans 1 and 2, as a member of the organizing committee for the Symposium on the Latest Trends in Organic Synthesis, and as a consultant to TDC Research, Inc, a custom synthesis company.

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