



# Advanced Organic Synthesis: A Laboratory Manual

*By Dmitry V. Liskin, Penny Chaloner*

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Laboratory experience equips students with techniques that are necessary for professional practice. **Advanced Organic Synthesis: A Laboratory Manual** focuses on a mechanistic background of key reactions in organic chemistry, gives insight into well-established trends, and introduces new developments in the field.

The book features experiments performed by primary author Dmitry Liskin while he was a graduate student, providing a real-life quality to the experiments by using examples that have actually been conducted. It also includes recent experiments that have been published in peer-reviewed journals. The experiments are presented in a brief and simple manner, including bulleted lists of the required materials and equipment as well as step-by-step walkthroughs. Each experiment also carefully details safety issues and waste disposal methods.

Emphasizing techniques and approaches used in more advanced labs, **Advanced Organic Synthesis: A Laboratory Manual** gives undergraduates the theoretical knowledge and practical experience they need to succeed at more advanced levels of research involving organic synthesis at the graduate or industrial level.

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### Editorial Review

#### About the Author

**Dmitry V. Liskin**, PhD, is a lecturer at Christopher Newport University, Newport News, Virginia. He graduated with a degree in ACS biochemistry from Mississippi College, Clinton, Mississippi. As an undergraduate, he worked on the synthesis and characterization of pseudoacids under the mentorship of Dr. Edward Valente. He moved to Seattle, Washington, for his doctorate studies in organic chemistry at the University of Washington. He joined a research group of Dr. Forrest Michael and developed alkene difunctionalizations as novel routes to substituted nitrogen heterocycles, mainly focusing on the use of hypervalent iodine oxidants.

Penny Chaloner, PhD, completed her undergraduate and graduate studies in Cambridge and had postdoctoral fellowships in Oxford, followed by a period in the United States as an assistant professor at Rutgers University and teaching at Harvard Summer School. She returned from the United States to a permanent position in Sussex, from which she recently retired. She first taught organic sophomore chemistry at Harvard in 1981 and has taught some version of this either once or twice a year ever since. Some of that was in North America, much in the United Kingdom, at Sussex, where for many years she taught the American organic chemistry sequence to visiting students, and to a large group of international premeds. Penny Chaloner has experience teaching this sequence in groups sized from two to almost a thousand.

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