

Introduction To Organic Laboratory Techniques

Pavia

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featuring 66 experiments detailing 29 techniques and including several explicating essays this lab manual covers basic lab techniques molecular modeling properties and reactions of organic compounds the identification of organic substances project based experiments and each step of the various techniques the authors teach at western washington university and north seattle community college annotation 2004 book news inc portland or booknews com

the well known and tested organic chemistry laboratory techniques of the two best selling organic chemistry lab manuals introduction to organic laboratory techniques a small scale approach and introduction to organic laboratory techniques a microscale approach 3 e are now assembled in one textbook professors can use any experiments alongside microscale and macroscale techniques in the organic laboratory experiments can be selected and assembled from the two pavia organic chemistry lab manuals from professors homegrown labs or even competing texts the 375 page hardcover book serves as a reference for all students of organic chemistry with clearly written prose and accurately drawn diagrams students can feel confident setting up and running organic labs

this edition features the successful format that has characterized the previous editions it includes essays that add relevance and interest to the experiments and emphasis on the development of the important laboratory techniques the use of spectroscopy and instrumental methods of analysis a section featuring conventional scale experiments and methods and a wide selection of well tested and well written experiments

featuring new experiments unique to this lab textbook as well as new and revised essays and updated techniques this sixth edition provides the up to date coverage students need to succeed in their coursework and future careers from biofuels green chemistry and nanotechnology the book s experiments designed to utilize microscale glassware and equipment demonstrate the relationship between organic chemistry and everyday life with project and biological or health science focused experiments as they move through the book students will experience traditional organic reactions and syntheses the isolation of natural products and molecular modeling important notice media content referenced within the product description or the product text may not be available in the ebook version

resumen taking an organic chemistry laboratory course you need a manual you can trust this proven laboratory manual gives you what you need to conduct a variety of interesting microscale experiments with safety and ease while you develop an understanding of the special techniques these type of experiments require the authors have increased the book's green approach giving you the clearly written information and instruction to conduct chemical experiments in a more environmentally friendly way many of the book's experiments have been modified to use new techniques and reduce the use of hazardous solvents and reagents you'll find fascinating essays that add real life relevance and understanding to each experiment including identification of drugs petroleum and fossil fuels detection of alcohol the breathalyzer and fireflies and photochemistry

featuring new experiments a new essay and new coverage of nanotechnology this organic chemistry laboratory textbook offers a comprehensive treatment of laboratory techniques including small scale and some microscale methods that use standard scale macroscale glassware and equipment the book is organized based on essays and topics of current interest and covers a large number of traditional organic reactions and syntheses as well as experiments with a biological or health science focus seven introductory technique based experiments thirteen project based experiments and sections on green chemistry and biofuels spark students interest and engage them in the learning process instructors may choose to offer cengage learning's optional premium website which contains videos on basic organic laboratory techniques important notice media content referenced within the product description or the product text may not be available in the ebook version

in this laboratory textbook for students of organic chemistry experiments are designed to utilize standard scale macroscale glassware and equipment but with smaller amounts of chemicals and reagents the textbook features a large number of traditional organic reactions and syntheses as well as the isolation of natural products and experiments with a biological or health sciences focus the organization of the text is based on essays and topics of current interest contains a comprehensive treatment of laboratory techniques including both small scale and some microscale methods

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