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Instructors' Guide for Macroscopic and Microscale
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A Guide to Laboratory Safety and Microscale Organic Laboratory Techniques
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Dana W. Mayo
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Charles E. Bell
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includes index

succeed in your organic laboratory course with techniques labs for macroscale and microscale organic experiments sixth edition this proven authoritative manual emphasizes safety and features new experiments that stress greener chemistry as well as updated nmr spectra and a premium website that includes glassware specific videos with pre lab gradable exercises using the manual s mix of macroscale and microscale experiments you ll gain the knowledge and confidence you need to perform a wide variety of experiments as well as experience working with conventionally sized glassware important notice media content referenced within the product description or the product text may not be available in the ebook version

this is a laboratory text for the mainstream organic chemistry course taught at both two and four year schools featuring both microscale experiments and options for scaling up appropriate experiments for use in the macroscale lab it provides complete coverage of organic laboratory experiments and techniques with a strong emphasis on modern laboratory instrumentation a sharp focus on safety in the lab excellent pre and post lab exercises and multi step experiments notable enhancements to this new edition include inquiry driven experimentation validation of the purification process and the implementation of greener processes including microwave use to perform traditional experimentation

williamson offers a series of experiments that encourage accurate observation and the development of deductive reasoning he places strong emphasis on safety and the disposal of hazardous waste this manual offers both macroscale conventional large scale and microscale small scale procedures for each experiment

covers the basic laboratory techniques of microscale organic chemistry beginning with an overview of lab safety it goes on to cover equipment and techniques without touching on specific experiments it includes a section on qualitative analysis an introduction to and interpretation of ir theory and group frequencies is provided later sections cover nmr ¹h nmr spectra and ¹³c nmr spectroscopy also includes microscale amounts which decrease the cost of chemicals increase safety improve air quality due to less waste disposal and decrease the time needed to complete experiments

a comprehensive coverage of organic chemistry experiments and techniques using milligram scale compared to the traditional multigrams scale the text is divided into seven chapters with the bulk of the techniques appearing in the first five chapters which represents one term of work additional pre lab discussions and post lab questions and reports are included

written for the mainstream sophomore junior level organic chemistry course offered at both two and four year schools this manual focuses upon implementing microscale techniques into the laboratory

the market leader for the full year organic laboratory this manual derives many experiments and procedures from the classic feiser lab text giving it an unsurpassed reputation for solid authoritative content the sixth edition includes new experiments that stress greener chemistry as well as updated nmr spectra and a premium website that includes glassware specific videos with pre lab gradable exercises offering a flexible mix of macroscale and microscale options for most experiments this proven manual emphasizes safety and allows instructors to save on the purchase and disposal of expensive sometimes hazardous organic chemicals macroscale versions can be used for less costly experiments allowing students to get experience working with conventionally sized glassware

microscale chemistry has opened various avenues for quality education and has motivated students towards environmental protection this book highlights the importance of safety procedures in the chemistry laboratory and introduces the special equipment used in microscale experiments and conducting chemical synthesis the book has been designed in such a manner that it will serve as a laboratory notebook which is required by students to note the detail of the each experiment they undertake it also enables students to develop the skills needed to study organic reactions at a deep and detailed level undergraduate and postgraduate students of pharmacy and organic chemistry will benefit hugely from reading this book

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