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Leonid Lerner, "Small-Scale Synthesis of Laboratory Reagents with Reaction Modeling" English | ISBN: 1439813124 | 2011 | 240 pages | PDF | 19 MB

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Description. 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 ...

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Small scale experiments are safer in lowering the risk of chemical contact, more environmentally friendly, produce less waste and gain many other benefits. Although several universities are familiar with small scale chemistry and some universities have operated small scale chemistry laboratories

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The in-lab preparation of certain chemical reagents provides a number of advantages over purchasing various commercially prepared samples. This is especially true in isolated regions where acquiring the necessary substances from overseas can cause undue delay and inconvenience due to restrictions on the transportation of hazardous chemicals. An invaluable resource for chemists in a variety of environments, Small-Scale Synthesis of Laboratory Reagents with Reaction Modeling presents efficient, sensible, and versatile methods for the laboratory preparation of common chemical reagents. Rapid, reliable synthesis Designed to facilitate smooth experimentation in the lab, this volume presents preparations chosen for their short duration, availability of apparatus, high yield, and high purity of the product. Adding an educational component, the book also discusses fundamental processes in inorganic chemistry, presenting original modeling of reactions and their practical implementation. Theoretical aspects are discussed to a greater extent than is usual in synthetic literature in cases where there is a direct impact on experimental parameters, such as the reaction time, yield, and purity of the product. More than 30 convenient, time-saving preparations Focusing on simple synthesis of high-purity reagents, the book contains over 30 presentations, a substantial number of which are mathematically modeled for the first time. Most syntheses can be carried out in one day using common laboratory equipment, making this volume a valuable and time-saving tool.

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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.

Encourage an appreciation of organic chemistry, its practice, and its application to the "real world" with Essentials of Organic Chemistry. Designed to supplement a one-semester organic chemistry lecture course, this laboratory text provides various experiments covering a wide range of difficulty, instrumentation, and chemical techniques. Basic information concerning lab safety, waste disposal, and instrumental methods are also included along with experiments that illustrate basic organic chemical reactions relating to everyday materials.

Here is the most complete guide available to the isolation, analysis, and synthesis of RNA. It covers everything researchers and laboratory workers need to know about the study of gene expression via RNA analysis—from the theory behind the methods, to actual problem-solving techniques. Step-by-step protocols are presented for each method. A careful presentation of the experimental formalities of these protocols enables specialists and nonspecialists alike to implement the methods easily in the laboratory. Each protocol is accompanied by the theoretical background underlying the experimental procedure and most chapters contain illustrations of typical results and troubleshooting tips. A Laboratory Guide to RNA offers a straightforward detailed account of experimental procedures, ranging from the isolation of RNA from a variety of cell and tissue types, detection analysis, and quantitation using a range of strategies, to large- and small-scale synthesis of RNA. This unique guide not only covers established procedures such as RNA blotting and nuclease protection, but also the latest protocols for quantitative PCR and differential display. Protocols addressing in situ hybridization are highlighted in an eight-page, full-color section that illustrates the power of the technique for detection of gene expression in tissues and whole organisms. Featuring contributions from leading research laboratories and the biotechnology field, A Laboratory Guide to RNA: Isolation, Analysis, and Synthesis provides all the methods required for RNA analysis. It is the ideal laboratory guide for research scientists, graduate students, and lab personnel who need a solid reference on the analysis of gene expression at the RNA level.

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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).

It is estimated that a large fraction of natural gas reserves are found in locations from where transport is not economical. If these isolated natural gas reserves could be converted to synthetic fuels, they would generate around 250 billion barrels of synthetic oil—a quantity equal to one-third of the Middle East’s proven oil reserves. Small-Scale Gas to Liquid Fuel Synthesis explores next-generation technologies geared toward overcoming the significant cost and technical barriers prohibiting the extensive use of conventional gas to liquid (GTL) processes for the exploitation of small and/or isolated natural gas reservoirs. The book highlights key research activities in the framework of two large European projects—Innovative Catalytic Technologies & Materials for Next Gas to Liquid Processes (NEXT-GTL) and Oxidative Coupling of Methane followed by Oligomerization to Liquids (OCMOL)—examining novel technical developments that reduce the costs associated with air fractioning and syngas production. Featuring contributions from internationally respected experts, Small-Scale Gas to Liquid Fuel Synthesis discusses innovative GTL technologies based on recent advances in catalytic membrane systems, reaction engineering, and process design. The book provides academic and industrial researchers with a concise presentation of the current state of the art of low-cost, energy-efficient GTL technologies for small-scale applications.

Chemistry and chemical engineering have changed significantly in the last decade. They have broadened their scopeâ€”into biology, nanotechnology, materials science, computation, and advanced methods of process systems engineering and controlâ€”so much that the programs in most chemistry and chemical engineering departments now barely resemble the classical notion of chemistry. Beyond the Molecular Frontier brings together research, discovery, and invention across the entire spectrum of the chemical sciencesâ€”from fundamental, molecular-level chemistry to large-scale chemical processing technology. This reflects the way the field has evolved, the synergy at universities between research and education in chemistry and chemical engineering, and the way chemists and chemical engineers work together in industry. The astonishing developments in science and engineering during the 20th century have made it possible to dream of new goals that might previously have been considered unthinkable. This book identifies the key opportunities and challenges for the chemical sciences, from basic research to societal needs and from terrorism defense to environmental protection, and it looks at the ways in which chemists and chemical engineers can work together to contribute to an improved future.

Laboratory facilities are complex, technically sophisticated, and mechanically intensive structures that are expensive to build and to maintain. Hundreds of decisions must be made before and during new construction or renovation that will determine how successfully the facility will function when completed and how successfully it can be maintained once put into service. This book provides guidance on effective approaches for building laboratory facilities in the chemical and biochemical sciences. It contains both basic and laboratory-specific information addressed to the user community-the scientists and administrators who contract with design and construction experts. The book will also be important to the design and construction communities-the architects, laboratory designers, and engineers who will design the facility and the construction personnel who will build it-to help them communicate with the scientific community for whom they build laboratory facilities.

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