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retic

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Paper and Thin

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methods of  
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the practical  
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application of  
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chromatography

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techniques in  
the biological  
sciences.

Organized into  
18 chapters,  
this edition  
begins with an  
overview of  
the clinical  
aspects  
related to the  
detection of



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those  
metabolic  
diseases that  
can result in  
serious  
illness  
presenting in  
infancy and  
early  
childhood.  
This text then  
discusses the

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three major  
types of  
screening for  
inherited  
metabolic  
disorders in  
which paper or  
thin-layer  
chromatography  
are being  
used,  
including

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screening the  
healthy  
newborn  
population,  
screening the  
sick  
hospitalized  
child, and  
screening  
mentally  
retarded  
patients.

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Other chapters consider the procedures for thin layer chromatography. This book discusses as well the complexity of amino acid mixtures present in

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natural products. The final chapter deals with the detection of synthetic basic drugs. This book is a valuable resource for chemists and toxicologists.

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chemistry  
involves  
designing  
novel ways to  
create and  
synthesize  
products and  
implement  
processes that  
will eliminate  
or greatly

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reduce  
negative  
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impacts. The  
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laboratory materials that challenge students with the customary topics found in a general chemistry laboratory manual, while encouraging them to



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investigate  
the practice  
of green  
chemistry.  
Following a  
consistent  
format, each  
lab experiment  
begins with  
objectives and  
prelab  
questions

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highlighting important issues that must be understood prior to getting started. This is followed by detailed step-by-step procedures for

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performing the  
experiments.

Students  
report  
specific  
results in  
sections  
designated for  
data,  
observations,  
and  
calculations.

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Once each experiment is completed, analysis questions test students' comprehension of the results.

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inquiry-based investigations and further research about how green chemistry principles compare with traditional, more hazardous experimental methods. By

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placing the  
learned  
concepts  
within the  
larger context  
of green  
chemistry  
principles,  
the lab manual  
enables  
students to  
see how these

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principles can  
be applied to  
real-world  
issues.

Performing  
laboratory  
exercises  
through green  
experiments  
results in a  
safer learning  
environment,

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limits the quantity of hazardous waste generated, and reduces the cost for chemicals and waste disposal.  
Students using this manual



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will gain a  
greater  
appreciation  
for green  
chemistry  
principles and  
the  
possibilities  
for future use  
in their  
chosen  
careers.

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have more than  
one plausible  
outcome,  
allowing  
individuals or

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broadly  
interpret  
evidence.

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and body  
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and processes,

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information on  
general  
methods,  
including  
descending,  
ascending, and  
ascending-  
descending chr  
omatography,  
filter paper "  
"chromatopile"  
", ""reversed

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phase"" paper chromatography, and paper electrophoresis.

The text then elaborates on quantitative methods and amino acids, amines, and proteins.

Discussions



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focus on  
visual

comparison,  
elution, area  
of spot, total  
color of spot,  
maximum color  
density,  
identification  
of amines,  
separation of  
proteins, and

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directions.

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publication  
examines  
carbohydrates  
and aliphatic  
acids and  
steroids.

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derived  
sugars, and  
aliphatic  
acids. The  
text also  
ponders on  
purines,  
pyrimidines,  
and related  
substances and  
phenols,  
aromatic

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experiments  
are laid out  
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learning

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objectives\*

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and equipment  
included and  
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available  
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may need to be  
supply\* An  
introduction  
of the science  
concept(s)\*

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collection and  
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Orbital Models

5. Properties  
of a Group in  
the Periodic  
Table 6.

Modeling

Carbonate

Reactions 7.

Hybridization  
of Orbitals 8.

Preparing a  
Salt: Iron



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Sulfide 9.

Analysis of  
Hydrates 10.

Mole Ratios

11. Boyle's  
Law 12.

Charles's Law

13. Freezing  
Point

Depression 14.

Carbon Dioxide

15. pH and pH

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Indicators 16.

Buffers 17.

Reaction

Rates,

Concentration

18. Reaction

Rates,

Temperature

19. Enthalpy

of Ice 20.

Reversible

Reactions 21.

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Solubility

Product

Constant 22.

Titration 23.

Molar Mass by

Titration 24.

Oxidation-

Reduction 25.

Galvanic Cells

26.

Hydrocarbon

Models 27.

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Polymer Models

28. Nuclear

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Simulation

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Acids and Bases;  
Reactions in Aqueous  
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Reactions and Net  
Ionic Equations;  
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of a Weak Acid;

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Constant for a

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Heat of Neutralization;

Rates of Chemical



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within the context of  
the problems posed;  
concept invention--the  
use of data and  
observations to  
construct accepted  
scientific knowledge  
about the concepts  
explored in the  
laboratory  
investigation; and,  
concept  
application--where

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students apply their conceptual understanding of the investigation at hand by modifying or extending the experiments, and write a report that emphasizes conceptual relevance. These college and honors level inquiry-based experiments correlate

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Lab 5 Enthalpy of

Fusion of Ice\* Lab

6 Enthalpy of



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Lab 10 Types of

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12 Analyzing

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15 Acid-Base

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*Analysis of Hydrates*

*10. Mole Ratios 11.*

*Boyle's Law 12.*

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Concentration 18.**

**Reaction Rates,  
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**Enthalpy of Ice 20.**

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**Solubility Product**

**Constant 22. Titration**

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**Chemistry and  
Biochemistry of  
Plant Pigments  
have been  
overtaken by  
research and the  
need for a new, up-  
to-date summary  
has become  
pressing. This new  
book was  
conceived in  
response to this**

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And Answers

**need. The  
burgeoning  
literature mitigates  
against a  
comprehensive  
treatment. Instead  
Professor  
Goodwin has  
identified seven  
topics which  
represent growing  
points in plant  
pigment research**

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And Answers

**and has invited experts to prepare critical reviews of recent developments in them. The resulting book is an essential companion to the earlier volumes and will ensure that workers in this field are**

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**absolutely up to date with the latest thinking.**

**This newest version of laboratory activities has evolved from Charles H. Corwin's experiments, which have been used by nearly**

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**200,000 students.**  
In addition to the  
fresh new art  
program that  
enhances student  
orientation to each  
experiment, this  
version retains the  
highly successful  
format of  
prelaboratory  
preparation,  
stepwise guided

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**procedures, and  
postlaboratory**

**assignments. The  
laboratory manual  
is especially well  
suited for students  
in Introductory**

**Chemistry,  
Preparatory**

**Chemistry; and  
Allied Health**

**Chemistry: In this  
newest version,**



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**the changes and improvements include: particular attention to the environmental issue. This version does not contain any procedures involving lead, mercury, chromium, chloroform, or carbon**

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**tetrachloride.**  
**experiments that**  
**utilize 13 X 100**  
**mm test tubes,**  
**rather than 1.6 X**  
**150 mm test tubes,**  
**so as to further**  
**reduce chemical**  
**waste. No special**  
**equipment is**  
**required and the**  
**labs are "not"**  
**microscale. an**

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**increased effort to ensure the safety of students in the laboratory; operations that involve even minimal potential danger have been avoided. Students are alerted to procedures that should be performed**

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**carefully; and the  
prelaboratory  
assignments have  
questions  
regarding safety.  
Example Exercises  
that illustrate the  
calculations  
associated with  
quantitative  
experiments.  
earlier placement  
of chemical**

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**reactions to  
motivate students  
while experiencing  
highly visual  
observations and  
color changes  
(Experiment 10,  
"Analysis of a  
Penny"). a paper  
chromatography  
experiment on the  
"Separation of  
Food Colors and**

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**Amino Acids."**

**"Annotated**

**Instructor's**

**Manual to**

**accompany the**

**Laboratory**

**Manual"**

**TheAnnotated**

**Instructor's**

**Manual that**

**complements the**

**lab manual helps**

**assure a**

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**successful  
laboratory  
program. The AIE  
offers general  
comments,  
suggests  
unknowns that  
give good results,  
and provides  
answers to all of  
the postlaboratory  
assignments. It  
also contains a**

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**"master list of reagents & suppliers" for every experiment. This feature is especially appreciated by stockroom personnel when ordering chemicals and preparing solutions.**



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**This laboratory manual is designed for an introductory majors biology course with a broad survey of basic laboratory techniques. The experiments and procedures are simple, safe, easy to perform, and**

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**especially appropriate for large classes. Few experiments require a second class-meeting to complete the procedure. Each exercise includes many photographs, traditional topics, and experiments**

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**that help students learn about life. Procedures within each exercise are numerous and discrete so that an exercise can be tailored to the needs of the students, the style of the instructor, and the facilities available.**

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**Extraction  
Chromatography  
Concepts and  
Connections  
Lab Manual  
Instructors Manual  
to Lab Manual  
Chemistry in Your  
Life Lab Manual  
Advanced  
Methods in  
Molecular  
Biology and**

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**Biotechnology:  
A Practical Lab  
Manual is a  
concise  
reference on  
common  
protocols and  
techniques for  
advanced  
molecular  
biology and  
biotechnology e  
xperimentation.**

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**Each chapter focuses on a different method, providing an overview before delving deeper into the procedure in a step-by-step approach. Techniques covered include**

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**genomic DNA  
extraction using  
cetyl trimethyla  
mmonium  
bromide (CTAB)  
and chloroform  
extraction, chro  
matographic  
techniques,  
ELISA,  
hybridization,  
gel  
electrophoresis,**

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**dot blot  
analysis and  
methods for  
studying  
polymerase  
chain reactions.  
Laboratory  
protocols and  
standard  
operating  
procedures for  
key equipment  
are also**



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**discussed,  
providing an  
instructive  
overview for lab  
work. This  
practical guide  
focuses on the  
latest advances  
and innovations  
in methods for  
molecular  
biology and  
biotechnology**

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**investigation,  
helping  
researchers and  
practitioners  
enhance and  
advance their  
own  
methodologies  
and take their  
work to the  
next level.  
Explores a wide  
range of**

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**advanced  
methods that  
can be applied  
by researchers  
in molecular  
biology and  
biotechnology  
Features clear,  
step-by-step  
instruction for  
applying the  
techniques  
covered Offers**

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**an introduction  
to laboratory  
protocols and r  
ecommendation  
s for best  
practice when  
conducting  
experimental  
work, including  
standard  
operating  
procedures for  
key equipment**

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**A Manual of  
Paper Chromatography and  
Paper  
Electrophoresis  
provides a  
comprehensive  
discussion of  
the techniques  
of paper  
chromatograph  
y and paper  
electrophoresis.**

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**The book is  
organized into  
two parts. Part I  
on paper  
chromatograph  
y provides a  
readily  
accessible  
source for some  
of the many  
uses and  
adaptations of  
paper chromato**

**graphy. An effort has been made to write a practical manual in which tried and proved procedures, employing relatively simple equipment and available**

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**reagents, are  
summarized.**

**Part II on paper  
electrophoresis  
discusses basic  
principles and  
methodology.  
The emphasis  
throughout has  
been on the  
separation of  
protein  
mixtures,**



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**particularly  
blood serum.**

**This reflects  
the fact that it  
is in this  
particular  
application that  
paper  
electrophoresis  
has thus far not  
been  
challenged by  
paper chromato**

**graphy,  
whereas many  
of the smaller  
molecules can  
be resolved  
equally well or  
better by the  
thus far more  
widely  
employed chro  
matographic  
procedures.**

**Scores of**

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**talented and  
dedicated  
people serve  
the forensic  
science  
community,  
performing  
vital  
important work.  
However, they  
are often  
constrained by  
lack of**

**adequate  
resources,  
sound policies,  
and national  
support. It is  
clear that  
change and  
advancements,  
both systematic  
and scientific,  
are needed in a  
number of  
forensic science**

**disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the**

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**United States: A  
Path Forward  
provides a  
detailed plan  
for addressing  
these needs and  
suggests the  
creation of a  
new  
government  
entity, the  
National  
Institute of**

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**Forensic  
Science, to  
establish and  
enforce  
standards  
within the  
forensic science  
community. The  
benefits of  
improving and  
regulating the  
forensic science  
disciplines are**

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**clear: assisting  
law  
enforcement  
officials,  
enhancing  
homeland  
security, and  
reducing the  
risk of wrongful  
conviction and  
exoneration.  
Strengthening  
Forensic**



**Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures,**

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**better training,  
widespread**

**adoption of  
uniform and  
enforceable**

**best practices,  
and mandatory  
certification  
and**

**accreditation  
programs.**

**While this book  
provides an**

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**essential call-to-  
action for  
congress and  
policy makers,  
it also serves as  
a vital tool for  
law  
enforcement  
agencies,  
criminal  
prosecutors and  
attorneys, and  
forensic science**

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**educators.**

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**Inquiry in**

**Chemistry**

**Paper and Thin**

**Layer Chromato**

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**graphy**  
And Answers

The latest edition  
of the authoritative  
reference to HPLC  
High-performance  
liquid  
chromatography  
(HPLC) is today  
the leading  
technique for  
chemical analysis  
and related

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applications, with an ability to separate, analyze, and/or purify virtually any sample. Snyder and Kirkland's Introduction to Modern Liquid Chromatography has long represented the

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premier reference  
to HPLC. This  
Third Edition, with  
John Dolan as  
added coauthor,  
addresses  
important  
improvements in  
columns and  
equipment, as well  
as major advances  
in our

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understanding of HPLC separation, our ability to solve problems that were troublesome in the past, and the application of HPLC for new kinds of samples. This carefully considered Third Edition maintains



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the strengths of the previous edition while significantly modifying its organization in light of recent research and experience. The text begins by introducing the reader to HPLC, its

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use in relation to other modern separation techniques, and its history, then leads into such specific topics as: The basis of HPLC separation and the general effects of different experimental

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conditions

Equipment and

detection The

column—the

"heart" of the

HPLC system

Reversed-phase

separation, normal-

phase

chromatography,

gradient elution,

two-dimensional

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separation, and  
other techniques

Computer  
simulation,  
qualitative and  
quantitative  
analysis, and  
method validation  
and quality control

The separation of  
large molecules,  
including both

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biological and  
synthetic polymers

Chiral separations,  
preparative

separations, and  
sample

preparation

Systematic

development of

HPLC

separations—new

to this edition

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Troubleshooting  
tricks, techniques,  
and case studies  
for both equipment  
and

chromatograms  
Designed to fulfill  
the needs of the  
full range of HPLC  
users, from  
novices to experts,  
Introduction to

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Modern Liquid  
Chromatography,  
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the most up-to-  
date,  
comprehensive,  
and accessible  
survey of HPLC  
methods and  
applications  
available.

The 48

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experiments in this well-conceived manual illustrate important concepts and principles in general, organic, and biochemistry. As in previous editions, three basic goals guided the development of all the



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experiments: (1)  
the experiments  
illustrate the  
concepts learned  
in the classroom;  
(2) the  
experiments are  
clearly and  
concisely written  
so that students  
will easily  
understand the

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task at hand, will  
work with minimal  
supervision  
because the  
manual provides  
enough  
information on  
experimental  
procedures, and  
will be able to  
perform the  
experiments in a

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2-1/2 hour

laboratory period;

and (3) the

experiments are

not only simple

demonstrations,

but also contain a

sense of

discovery. This

edition includes

many revised

experiments and

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two new  
experiments.

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