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**3 Fessenden**

**Fessenden and Feist**

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...

TLC - The Basics Thin-layer chromatography is the most commonly used analytical technique in many research labs. This video walks you through every step, from setting up a developing chamber to

...

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**Using Other Organic  
Chemistry Lab  
Techniques -**

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3. Fessenden,  
Fessenden, and Feist,  
Organic Laboratory  
Techniques 3 rd ed.  
(2000, Brooks/Cole  
Publishing). Patty Feist  
is a senior lab  
instructor at the U. of  
Colorado and  
maintains the  
techniques web site  
(reference #2 above).

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Students are not required to consult this book, just be aware that it exists. 7

## **Introduction to Organic Laboratory Techniques**

He is the co-author with Donald Pavia, Gary Lampman, and Randall Engel of two organic laboratory books that include both techniques and experiments:

INTRODUCTION TO

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ORGANIC LABORATORY  
TECHNIQUES: A

MICROSCALE

APPROACH (Cengage  
Learning), and A SMALL  
SCALE APPROACH TO  
ORGANIC LABORATORY  
TECHNIQUES (Cengage  
Learning).

**Lec 3 | MIT 5.301**

**Chemistry**

**Laboratory**

**Techniques, IAP**

**2004**

Evaporation station in  
a hood (see "Equipping



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Techniques 381

Filtration  
the Organic Chemistry Laboratory" earlier in this manual). Waste containers for aqueous and non-halogenated organic wastes (note: there will be some methylene chloride in the aqueous waste)

Optional Exercise in  
Part B Caffeine 1.0 g  
Methylene chloride 30 mL

**Organic chemistry  
Laboratory methods**

CH 337 LAB SCHEDULE

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Summer 2011 Texts

"Organic Laboratory

Techniques," 3<sup>rd</sup>

edition, Fessenden &

Fessenden & Feist

(purchase at PSU

Bookstore) I have put

four copies of FFF in

the Library and in SB1

221. Notes:

Experiments begin on

the first day of lab.

Safety goggles and

Carbon copy notebook

are needed for the first

lab.

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**ORGANIC**

**LABORATORY 3 3 1**

**TECHNIQUES 3 3.1**

**FILTRATION**

**METHODS**

3.1: Overview of  
Crystallization; 3.2:  
Uses of Crystallization

The main use of  
crystallization in the  
organic chemistry  
laboratory is for  
purification of impure  
solids: either reagents  
that have degraded  
over time, or impure  
solid products from a

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chemical reaction.

Techniques 3 3 1

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...

Organic chemistry -  
laboratory methods 3  
Grading and Rules of  
evaluation The final  
grade will be weighted  
arithmetic mean of two

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grading elements: (1) lab work (60%) and (2) post-lab reports (40%) lab work will be graded twice - after 4th and 8th class; the lab work grade will be an arithmetic mean of those two grades

**Organic Laboratory  
Techniques: Ralph J.  
Fessenden, Joan S ...**

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**ORGANIC  
CHEMISTRY  
LABORATORY I CH  
337**

3.4A: Purification

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Crystallization is an excellent purification technique for solids because a crystal slowly forming from a saturated solution tends to selectively incorporate particles of the same type into its crystal structure.

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TECHNIQUES 3 3.3 c. 1

Hot filtration Never  
heat organic solvents  
with a Bunsen burner.  
Use a hot plate or a hot  
water bath on a hot  
plate. Sometimes  
during a gravity  
filtration, crystals can  
start to grow in the  
filter funnel and may  
block the

**Introduction to  
Organic Laboratory  
Techniques: A Small**

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Techniques. Home 3 1

Description 2nd Edition

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Organic Chemistry Lab.

It was helpful in understanding techniques and lab equipment, however I feel I would have done just as well if someone explained these techniques to me in person. For what the book contains, I do not think it is worth the price, even used.

**Experiment 1**

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## **SOLUBILITY**

This supplemental text for an introductory organic laboratory course covers isolation and purification techniques, refractive index, chromatography, reactions, and infrared and NMR spectroscopy. The IR and NMR sections deleted from the second edition have been returned to the third edition.

Annotation c. Book

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News, Inc., Portland,  
OR (booknews.com) 1

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### **3.4: Crystallization Theory - Chemistry LibreTexts**

Introduction to Organic  
Laboratory Techniques:  
A Microscale Approach  
(Fourth Edition)

continues our  
dedication to the  
microscale approach to  
the teaching of the  
organic laboratory. In  
this edition we have  
devoted considerable



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effort toward improving the safety of all of the experiments.

### **3: Crystallization - Chemistry LibreTexts**

Reviewed by  
Constance Franklin,  
Assistant professor,  
Organic chemistry  
laboratory coordinator,  
Virginia

Commonwealth  
University on 3/27/18.

This book does an  
excellent job of

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covering all of the  
basic techniques used  
in an organic chemistry  
lab.