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***In a one-
dimensional
consolidation
test, a
sustained load
duration in
excess of 104
min is rarely***

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*used for
evaluation of
the coefficient
of secondary
compression
even for very
plastic clays.
However, there
are instances
in the
literature
where load
durations have*

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**exceeded 105
min. The
clogging of
porous stones
by migration of
soil fines is
conventionally
prevented by
interposing
filter paper
separators
between the
porous stones**

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and the soil specimen. The present study examines the effect of filter paper separators on the secondary compression and swelling characteristics of a bentonite-sand mixture.

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*In longterm
volume change
tests, use of
filter paper
separators
results in
increased
deformation
when the soil
is undergoing
drained creep
in
consolidation*

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tests. When the soil undergoes swelling over a long period of time, some collapse occurs due to the decay of the filter paper separators. The observations of a long-duration drained creep

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test on this soil are used to explain the reported secondary compression behavior of some natural soils. The results of the study bring out the need to develop

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*nondegradable
separators for
long-duration
tests to
protect porous
stones from
clogging with
soil fines.
Amino acid
analysis is
widely used in
biotechnology,
biomedical, and*

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*food analysis
laboratories.*

Amino Acid

Analysis

Protocols

*constitutes a
major*

*collection of
these*

indispensable

analytical

techniques,

both classic

Bookmark File
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*and cutting-
edge, of high
utility for
answering
specific
biological
questions.*

*Common methods
include those
based on HPLC
or gas
chromatography
separation and*

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*analysis after
precolumn*

derivatization.

*New techniques
based on*

capillary

electrophoresis

separation, hig

h-performance

anion exchange

chromatography,

and mass

spectrometry

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*are also
presented.*

*Since results
depend heavily
on the quality
of the sample,
most
contributors
have devoted a
section to
sample
preparation,
particularly to*

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*the collection
and storage of
bodily fluids.
A new method
for desalting
samples prior
to hydrolysis
is also
provided. Each
method is
described in
step-by-step
detail to*

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**ensure
successful
experimental
results, and
contains
helpful notes
on pitfalls to
avoid, and
variations that
enable the
methods to be
used with
different**

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systems. Up-to-date and highly practical, Amino Acid Analysis Protocols offers analytical and clinical chemists, as well as a broad range of biological and

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*biomedical
investigators,
a rich
compendium of
laboratory
tools for the
productive
analysis of
both common and
uncommon amino
acids.*

*Use of
Radioactive*

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*Reagents in
Filter Paper
Partition
Chromatography
Chemistry
The Magazine of
Science and
Schools of Art
The Emergence
of Unsaturated
Soil Mechanics
Quantitative
Chemical*

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***Analysis, Sixth
Edition***

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Illustrates how to collect a blood specimen from a newborn, apply it to filter paper, and handle and mail the specimen properly to the laboratory.

Contains results of

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investigations,
researches, etc.,
pertaining to
scientific, technical
and manufacturing
interests of the
country.

Techniques in
Organic Chemistry
Chemical Engineer
Scientific American
Handy Book of

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Facts and
Formulae

Unsaturated Soil
Mechanics in
Engineering
Practice
Decomposition of
Native Herbage
and Filter Paper at
Five Meadow Sites
in Sequoia
National Park,

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California
Laboratory

Instrumentation is central to the study of physiology and genetics in living organisms, especially at the molecular level. Numerous techniques have been developed

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*to address this
in various
biological
disciplines,
creating a need
to understand
the physical
principles
involved in the
operation of
research
instruments and
the parameters*

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*required in
using them.*

*Introduction to
Instrumentation
in Life*

*Sciences fills
this need by
addressing
different
aspects of
tools that hold
the keys to
cutting-edge*

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*research and
innovative
applications,
from basic
techniques to
advanced instru-
mentation. The
text describes
all topics so
even beginners
can easily
understand the
theoretical and*

Bookmark File
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Laboratory
*practical
aspects.*

*Comprehensive
chapters
encompass well-
defined
methodology
that describes
the instruments
and their
corresponding
applications in
different*

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scientific fields. The book covers optical and electron microscopy; micrometry, especially in microbial taxonomy; pH meters and oxygen electrodes;

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*chromatography
for separation
and
purification of
products from
complex
mixtures;
spectroscopic
and spectrophot
ometric
techniques to
determine
structure and*

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*function of
biomolecules;
preparative and
analytical
centrifugation;
electrophoretic
techniques; x-
ray
microanalysis
including cryst
allography;
applications of
radioactivity,*

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*including
autoradiography
and radioimmuno
assays; and
fermentation
technology and
subsequent
separation of
products of
interest. The
book is
designed to
serve a wide*

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*range of
students and
researchers in
diversified
fields of life
sciences:
pharmacy,
biotechnology,
microbiology,
biochemistry,
and
environmental
sciences. It*

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*introduces
different
aspects of
basic
experimental
methods and ins
trumentation.
The book is
unique in its
broad subject
coverage,
incorporating
fundamental*

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techniques as well as applications of modern molecular and proteomic tools that are the basis for state-of-the-art research. The text emphasizes techniques encountered

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both in practical classes and in high-throughput environments used in modern industry. As a further aid to students, the authors provide well-illustrated diagrams to

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explain the principles and theories behind the instruments described.

For instructors who wish to focus on practical, industrial, or research chemistry.

Includes case

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*studies,
applications
boxes, and
spreadsheet
applications.
Impact of
Changing
Technological
and Economic
Factors on
Markets for
Natural
Industrial*

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Fibres

*The Theory of
Quantitative
Analysis and
Its Practical
Application
Analytical*

*Chemistry: (Com
prehensively
Covering the
UGC Syllabus)
vente à Paris,
Nouveau Drouot,*

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salle n. 7, 19
octobre 1987

*The Use of
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Ablood*

*Transportmedium
in the*

*Detection of
Dengue- Hai-
antibody*

**This publication
is an assemblage
of selected**

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**papers that have
been authored or
co-authored by
D.G. Fredlund.
The substance of
these papers
documents the
milestones of
both the science
of unsaturated
soil mechanincs
and the career of
the author during**

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**his tenure as a
faculty member
in the
Department of
Civil Engineering
at the University
of Saskatchewan,
Saskatoon,
Canada.**

**Surpassing its
bestselling
predecessors, this
thoroughly**

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designed to be a
powerful training
tool for entry-
level chemistry
technicians.**

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Chemistry for
Technicians,
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explains
analytical**

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**chemistry and
instrumental
analysis
principles and
how to apply
them in the real
world. A unique
feature of this
edition is that it
brings the
workplace of the
chemical
technician into**

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the classroom.

**With over 50
workplace scene
sidebars, it offers
stories and
photographs of
technicians and
chemists working
with the
equipment or
performing the
techniques
discussed in the**

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**text. It includes a
supplemental CD
that enhances
training
activities. The
author
incorporates
knowledge gained
from a number of
American
Chemical Society
and PITTCON
short courses and**

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from personal visits to several laboratories at major chemical plants, where he determined firsthand what is important in the modern analytical laboratory. The book includes more than sixty experiments

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**specifically
relevant to the
laboratory
technician, along
with a Questions
and Problems
section in each
chapter.**

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Chemistry for
Technicians,
Third Edition
continues to offer**

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the nuts and bolts of analytical chemistry while focusing on the practical aspects of training.

**The Use of Filter Paper Disks in Chromatography
Bulletin of the Bureau of Standards
Comparison of**

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**the Use of Ion-
exchange Resin
Membranes and
Filter Paper for
the Construction
of Contamination
Sources**

**The Paper Mill
and Wood Pulp
News**

**The Chemical
News and Journal
of Physical**

The relationship between matric or total suction and gravimetric water content, volumetric water content, or degree of saturation is denoted as the soil-water characteristic curve. This relationship has

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been widely used for

predicting the

engineering

behavior of

unsaturated soils.

Residual and

colluvium soils from

tropical and

subtropical regions

often show bimodal-

shaped soil-water

characteristic

curves, indicating that both micropores and macropores present in these soils govern the inflow and outflow of water. The objective of this paper is to discuss testing methods adequate for obtaining soil-water

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characteristic

curves of bimodal

shape, particularly

by the combined use

of the suction-plate

method (suction

Native herbage

samples provided

more precise

measures of

decomposition than

did filter papers,

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*and use of unburied
herbage samples*

was the most

suitable technique.

Chemical

Engineering

Catalog

Summaries of Tariff

Information

A Monthly Journal

of Practical, Applied

and Analytical

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***Chemistry
Blood Collection on
Filter Paper for
Neonatal Screening
Programs***

***Environmental
support technician
(AFSC 56671)***

*The definitive guide
to unsaturated
soil— from the
world's experts on*

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the subject This book builds upon and substantially updates Fredlund and Rahardjo's publication, Soil Mechanics for Unsaturated Soils, the current standard in the field of unsaturated soils. It provides readers with more

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thorough coverage of the state of the art of unsaturated soil behavior and better reflects the manner in which practical unsaturated soil engineering problems are solved. Retaining the fundamental physics of

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*unsaturated soil
behavior presented
in the earlier book,
this new
publication places
greater emphasis
on the importance
of the "soil-water
characteristic
curve" in solving
practical
engineering
problems, as well*

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as the quantification of thermal and moisture boundary conditions based on the use of weather data. Topics covered include: Theory to Practice of Unsaturated Soil Mechanics Nature and Phase Properties of

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*Unsaturated Soil
State Variables for
Unsaturated Soils
Measurement and
Estimation of State
Variables Soil-
Water
Characteristic
Curves for
Unsaturated Soils
Ground Surface
Moisture Flux
Boundary*

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*Conditions Theory
of Water Flow
through
Unsaturated Soils
Solving Saturated/
Unsaturated Water
Flow Problems Air
Flow through
Unsaturated Soils
Heat Flow Analysis
for Unsaturated
Soils Shear
Strength of*

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*Unsaturated Soils
Shear Strength*

*Applications in
Plastic and Limit
Equilibrium Stress-
Deformation*

*Analysis for
Unsaturated Soils
Solving Stress-
Deformation*

*Problems with
Unsaturated Soils
Compressibility and*

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Pore Pressure

Parameters

*Consolidation and
Swelling Processes*

in Unsaturated

Soils Unsaturated

Soil Mechanics in

Engineering

Practice is essential

reading for

geotechnical

engineers, civil

engineers, and

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*undergraduate- and
graduate-level civil
engineering
students with a
focus on soil
mechanics.*

*"Compatible with
standard taper
miniscale, 14/10
standard taper
microscale,
Williamson
microscale.*

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*Supports guided
inquiry" --Cover.*

*Analytical
Chemistry for
Technicians
Case Studies on
Jute, Kenaf, Sisal
and Abaca
Specification for
Filter Paper for Use
in Chemical
Analysis
Partly Based Upon*

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*the 28th Ed. of
Scientific American*

*Cyclopedia of
Receipts, Notes
and Queries*

*Role of Filter Paper
Separators on the
Response of Clays
Under Long-
Duration Sustained
Loading*

Solid-Liquid
Separation,

Page 64/73

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Third Edition
reviews the
equipment and
principles
involved in the
separation of
solids and
liquids from a
suspension. Some
important
aspects of solid-
liquid
separation such
as washing,

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flotation,
membrane
separation, and
magnetic
separation are
discussed. This
book is
comprised of 23
chapters and
begins with an
overview of
solid-liquid
separation
processes and

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the principles involved, including flotation, gravity sedimentation, cake filtration, and deep bed filtration. The following chapters focus on the characterization of particles

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suspended in liquids; the efficiency of separation of particles from fluids; coagulation and flocculation; gravity thickening; and the operating characteristics, optimum design criteria, and

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applications of hydrocyclones.

The reader is also introduced to various solid-liquid separation processes such as centrifugal sedimentation, screening, and filtration, along with the use of filter

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aids.

Countercurrent washing of solids and problems associated with fine particle recycling are also considered. The final chapter is devoted to the thermodynamics of particle-

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fluid
Laboratory
interaction.

This monograph
will be useful
to chemical
engineers and
process
engineers,
particularly
those in plant
operation, plant
design, or
equipment
testing and

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commissioning.
It can also be
used as a
textbook for
both
undergraduate
and postgraduate
students.
Inorganic
Quantitative
Analysis
The Chemical
Engineer
Estimating Soil

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Matric Potential
in Owens Valley,
California
Approved
Standard (1997)
Introduction to
Instrumentation
in Life Sciences